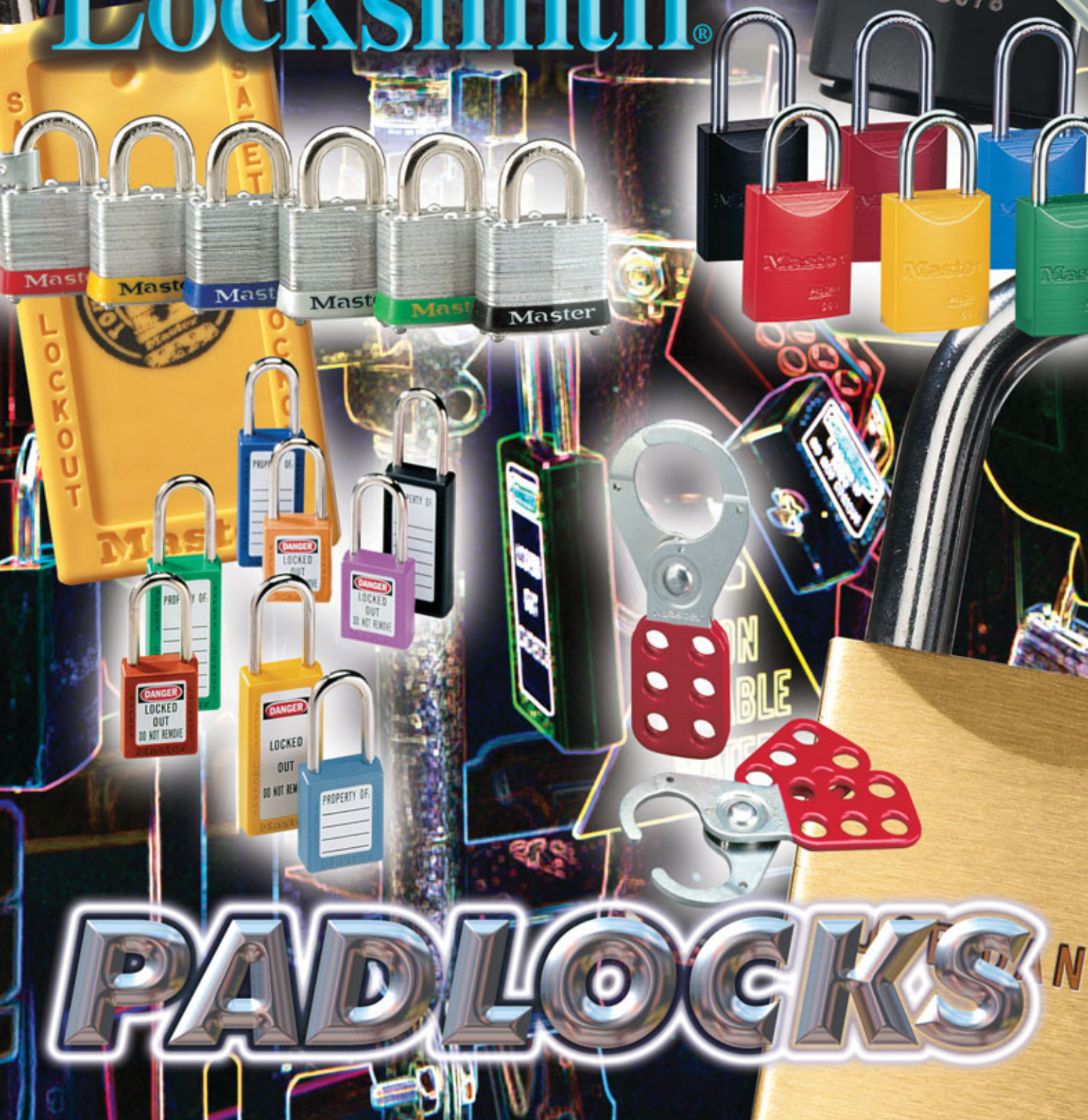


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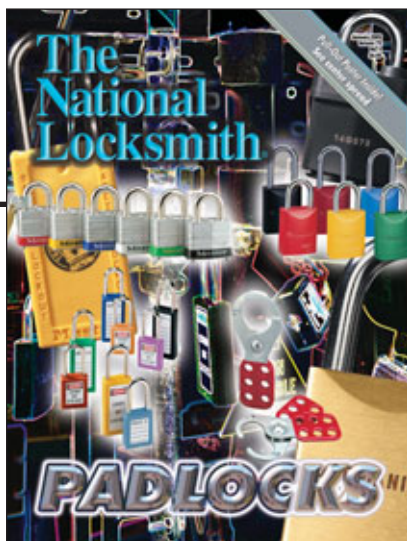
# The National Locksmith®

January 2002  
Volume 73  
No. 1  
\$6.00  
Pull-Out Poster Inside!  
See center spread





**On The Cover...**



Safety lockout infractions are one of OSHA's top five violations. Master Lock offers a plethora of products to help customers comply with OSHA's safety lockout mandates.

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The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$44.00 per year in the USA; \$55.00 per year in Canada; \$70.00 in all other countries. Single copies \$6.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. ©2002 by the National Publishing Company. All rights reserved. Printed in the U.S.A.



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Member



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Applied for August 2001**

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# COMMENTARY



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## Product news and a free poster!

**I** have a bunch of news to share with you this month!

First, be aware the famous **AutoSmart Advisor™** software has been updated to include not only the new models but also a whole lot more. Here are some of the new features: Parts Locator allows you to do a reverse search of part numbers. Enter a part number and a list of vehicles will appear by make, model and year. This feature will also show you a color photo of the part.

Service Help in AutoSmart Advisor™ contains the full service articles with color photos that you've been waiting for. Step by step instructions show you how to do everything imaginable to every covered vehicle. Each additional update will include ever more service articles.

**InstaCode 2002** is now a reality! The amazing code software is even more mind blowing than ever. Not only have thousands of new codes been added for this year, but you can also pull up virtually any Auto Security Products part you need as well. The ASP catalog has been added, cross referenced by vehicle make and model. You also get pictures of key blanks and profiles. Moreover, the key blank cross reference is exhaustive and very comprehensive. InstaCode 2002 is much more than just a code program.

A free CD is available with the demo versions of both AutoSmart Advisor™ and InstaCode. To get yours, just send us your request along with three dollars to cover shipping and handling and we'll ship you one out. Send your request to us at *The National Locksmith*, 1533 Burgundy Parkway, Streamwood, IL 60107.

**Dave McOmie** is back on the safe opening rampage with a series of Penetration Parties. If you've never attended one, you'll be shocked at what you learn as you and Dave

zoom through safe after safe after safe. Be aware that attendance is strictly limited because of the huge amount of personal attention and hands on experience you get. Register early so you don't get shut out.

Here are the dates and contact info. April 27-30, Chesterfield, SC. May 4-5, Philadelphia. May 18-19, Clearwater, FL. May 25-26 Norwood, MA. Costs are \$275 for those who attended a previous seminar. \$325 for NSO members. \$375 for everyone else. Send your check and seminar choice to Dave McOmie, 4549 NW Trout St., Camas, WA 98607.

**The center spread of this issue contains a pull out poster.**

Carefully remove it from the middle of the magazine, and display it proudly in your window. We're all deeply moved by the struggle of our country at this time. And this poster is a patriotic way of expressing your patriotism and at the same time to remind people to consider their own security at the same time.

*Marc Goldberg*



**Have questions? Want free technical help?**  
**Free Locksmith Forums!**

www.TheNationalLocksmith.com

**Marc Goldberg**  
Publisher



# Mango's Message

## Doctor, Doctor

I went to the doctor the other day for my annual check-up, which for me, an annual check-up occurs about once every 10-years. Ever since I passed the big 4-0 milestone in my life, (just a year, five or six ago) my wife has been pushing me to see the doctor for a *COMPLETE* physical. Well if you're a man past 40, you know what that means. A complete lube, oil change, filter, topping off of all fluids and a critical inspection of every orifice (eyes, ears, nose, throat and where the sun don't shine) awaits. That's why I a-waited so long to have it done.

Well, my wife got her way and I soon found myself sitting on a paper laden table, in paper garments (when did they get rid of the cloth ones?) in a cold sterile room. Before long the doctor walked in and told me to lie on my side. He then snapped on a pair of rubber gloves and swung in bright lights and a camera. All that was missing was a director to say "Action!"

As he proceeded, I was soon flush with embarrassment. I couldn't believe that all this time I thought borescopes were only used to open safes! You learn something new all the time.

In the end (no pun intended) I am very proud to report that I was told I had a very good looking prostate. Every other orifice passed inspection, my blood pressure was excellent and my reflexes were sharp as a cat. In fact, I almost bonked the doctor in his forbidden zone because my leg shot up quicker than he expected after his mallet rapped my kneecap. All we needed to do now was wait for the blood test results.

The next day the doctor himself called the house (never a good sign) to inform me that the test results were in. My blood sugar was slightly elevated (possible diabetes), my cholesterol was very high (possible heart attack) and a liver enzyme test raised cause for concern (possible liver failure). So much for happy endings and high fat, high cholesterol foods. They sure were good while they lasted.

The doctor put me on cholesterol lowering pills and a low fat, low cholesterol diet. He then said he would do another blood sugar test in a month and suggested that I make an appointment at the hospital for an ultrasound test of my liver.

A couple of weeks later I was at the local hospital preparing for my liver ultrasound. I was told by the nurse to go into a room about the size of a closet and change into hospital garments. There, in a linen basket, was a pile of "cloth" garments of varying styles. I grabbed one and proceeded to put it on. About every two minutes the nurse poked her head in to see if I was finished. I would have been if I had figured out how to put the stupid thing on. I

## Bits & Pieces

could tell she was getting a little impatient with me. I frantically searched the room to see if there was a diagram (installation instructions) on how to put this garment on. I really couldn't figure it out. Finally, I got the thing on (I still don't know if I wore it correctly, but it covered the vital areas) and proceeded to the ultrasound room.

There I was positioned on a table where the nurse exposed my belly, smeared some jelly on and scanned my abdominal region with a probe. About 15-minutes later the test was complete and I was only too happy to get out of those ridiculous hospital garments.

About a week later I was back in the doctor's office for another blood sugar test and the ultrasound results. The second blood sugar test proved to be fine (no diabetes). The ultrasound test on the other hand, showed that I had fatty deposits in the liver. The doctor was very perplexed by this, until he learned that I take Advil for headaches. He immediately told me to stop taking Advil and switch to Excedrin. Apparently, the pain reliever Advil, which contains Ibuprofen, has been known to affect the liver with fatty deposits, which is usually the result of abusive alcoholic consumption. I don't consume liquor, which is why the doctor was originally stymied by the test result.

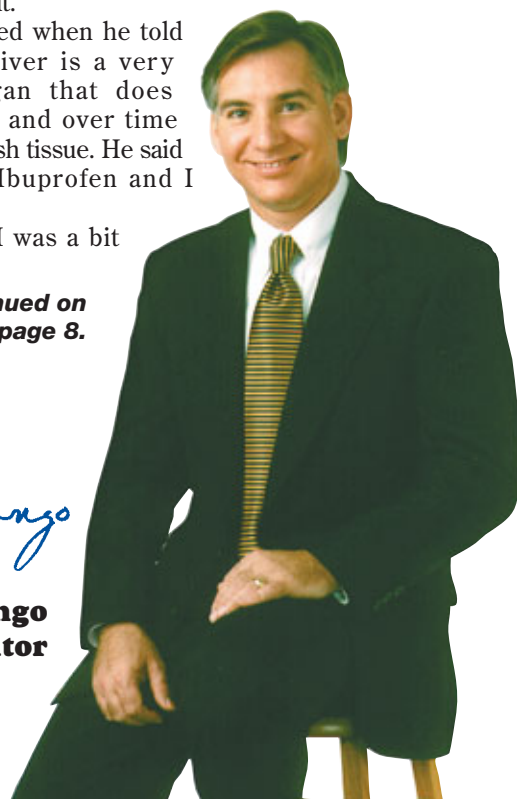
I was relieved when he told me that the liver is a very forgiving organ that does cleanse itself, and over time regenerates fresh tissue. He said keep off the Ibuprofen and I should be fine.

Originally, I was a bit

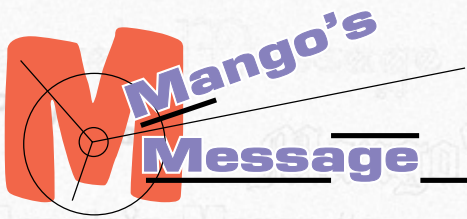
**Continued on  
page 8.**

*Greg Mango*

**Greg Mango  
Editor**







Continued from page 6

apprehensive about getting a complete physical. I think it was due to the fear of learning about something I would rather not know. In the end, I'm glad I did. I had no idea my liver was being harmed by an over the counter pain reliever and may never have, until it started bleeding or worse yet, shut down completely. I, like so many others, lived with the preconceived notion that nothing would happen to me. I have been blessed with good health, which made me feel infallible. I have never been in the hospital for any major surgery (except to have my tonsils removed when I was a kid), never broke a bone, (even though I played baseball, basketball, football, hockey and would wrestle with anyone willing) and never had a stitch. As a result, I thought I was Superman. This checkup proved that the Kryptonite is slowly having an effect. In fact, I didn't even have a doctor. I found the doctor that checked me recently in the Yellow Pages.

If you're over 40 and haven't had a good physical in some time, I highly encourage you to do so. No one wants to hear bad news about their health, but you have a far greater chance of overcoming any maladies you may have developed if discovered sooner, rather than later.

#### One More Critter

On a happier note, I am proud to report that my wife and I have a new granddaughter. I know you are shocked and in total disbelief to learn that such a handsome, youthful looking lad like myself, could be remotely old enough to have children, let alone grandchildren! Well, so am I, but actually, I have a total of six grandchildren – three boys and three girls – four of which are daughter Michelle's (Logan, Mason, Gavin and brand new baby girl Riley), and two are April's girl's (Ceara and Chloe).

Rachel and I were also fortunate enough to be visiting Michelle in her home state of Kentucky when she gave birth. It was a very special occasion for me because it was the first time I was with her during such an event. Riley was born a beautiful shade of gray and chattering just like her mother – and grandmother. That's another one Ma Bell is going to love. I think I'll invest in some telecommunication stock.

#### Firefighters of America

There has never been more attention, and coverage given to firefighters, rescue personnel, and police officers, than there has since the World Trade Center attacks in New York City. Showing their appreciation and support, I thought I would share a photograph of three of my buddies paying homage to their local firefighters. That's Logan on the left, Gavin in the middle and future firefighter Mason on the right.

#### Caught in the Act

The manager of a convenience store was having a bit of trouble with his Tidel Tacc II cash dispensing machine. It was apparently not dispensing coins properly. In an attempt to remedy the situation, he decided to shove his arm up the drop shoot to remove any foreign matter that may have

been causing the problem. While doing so, the motorized dispenser engaged and pinched his fingers inside the unit like a mouse trap. As he dangled on the floor helpless, a 911 call was made for help. After police and ambulance workers arrived, it was determined that there was little they could do, short of removing his arm at the elbow. That not being an option, locksmith Brian Wilson was called. After critiquing the situation, he removed the back cover and relieved the pressure on the motorized cash-dispensing unit.

Ouch, that had to hurt. I don't think that manager will be sticking his hands where they don't belong again.

#### Fan Mail

As you can imagine, I receive a ton of fan mail (I'm flattered) that overflows in a mail bag in my office due to the lack of space to print it all in the magazine. Besides, Marc gets jealous because he doesn't receive as many, so I intentionally hold mine back so as not to hurt his feelings. Well, to start the year off on the right foot, this month I thought I'd inflate my ego a bit and share just one letter with you. O.K., I'll close my eyes, stick my hand in the bag and mix them up just like in the Bozo drum, and randomly select one. Swish, swish, swish, got one! Hope you enjoy.

#### Shame on You

*I just wanted to say how shocked and disappointed I am with your article (A Burning Inferno in the September 2001 issue) concerning the ALOA convention, fire etc. The cavalier way in which you handled the death of the PDQ representative is disgraceful. This should have been a separate item or article entirely, not stuck in the middle of your discourse on the events and spoken of in such an "Oh, by the way" method. Forbid this should come up in the future with another death, but if it does, I hope you give the deceased and their families, friends and readers the respect it deserves. Shame on you.*

Aja J. McTyre  
McTyre Lock and Safe

**Editors Note:** Stop already, that's enough about Me, you're making me blush. Marc, eat your heart out.

TRL





January 2002

# Letters

The National Locksmith is interested in your view. We do reserve the right to edit for clarity and length.

## Thank You

I want to thank you for a fine book, a book that really helps the locksmiths.

Howard Ward  
Howard's Lock & Key

## Our Sympathy

We would like to express our sympathy on the tragedy brought on by terrorism in New York City, to the people of the United States, as well as many other Nations of the World, including our own in Canada who have suffered tremendous loss of life. It is to this end, of helping to rid the world of terrorism. We show solidarity with our fellow locksmith's and security professionals in the U.S.

Regards, the National Locksmith  
Association of Canada.

Tom Beckingham, President  
S. Haider Ali, Exec. Chairman

William Alexander, Membership Rep.

## 73 and Still Picking

Thank you for the privilege of renewing my present subscription, which expires in June 2002.

The National Locksmith  
1533 Burgundy Parkway  
Streamwood, IL 60107  
Attn: Editor

I have enjoyed receiving The National Locksmith magazine each month and reading the interesting articles that help all of us in this great industry. By this fact alone we share and acquire the necessary knowledge to do our jobs and share our experiences with others on a daily basis.

Thank you and your staff for this wonderful publication that has served along with others to move us forward in a more positive direction over the years.

I will, if God willing, enjoy my 73rd Birthday on January 2, 2002.

Wendall A. Farrell  
U.S. Airforce - Retired  
Texas

## Short Circuited

In an effort to educate local police forces with the dangers inherent in opening vehicles with electronic locking systems by use of a Slim Jim, I am looking for documentary proof of instances where a Slim Jim has short-circuited the locking solenoid within a vehicle door, thereby causing the vehicle to catch fire. Published articles or service bulletins would be best. Any TNL readers having access to such, please send a photocopy to me. I'll be happy to reimburse for costs.

Mail to: Keenen's Lock & Key,  
P.O. Box 8246, Essex, VT 05451.  
Phone: (802) 878-4694.

David A Keenan, CRL  
Vermont

## They Don't Need Locksmiths!

I work for a small locksmith company in South Carolina who has been a AAA service provider for the past ten years. This past week the head person for AAA and the area reps came to our area. We, as well as



other locksmiths, were notified about the meeting and my boss decided to attend. What we were all told by AAA was, they did not need locksmiths to do car openings!

Don't get me wrong, car openings, as everybody knows, is a small part of our business and we do not rely on them as our main source of revenue. The problem starts when the tow company stops running after hours. We are the ones that are supposed to get out of bed at all hours to do a lockout at a reduced rate.

Needless to say, my boss and a couple of other locksmiths in the room walked out of the meeting and terminated their contracts with AAA. I say, let the tow companies have their business for what little it's worth. In the last couple of months, no less than three locksmiths in our area have canceled their contracts for reasons such as not paying for mileage, key making, key extraction's and sometimes not being paid at all for calls run. Then it's up to us to prove our case to them and give them all the information that they already have.

This is just a warning about the attitude of the people that are running AAA and the problems that



are to be expected when dealing with a service provider that apparently doesn't give a darn about us, or their customers.

*Paul Richardson  
South Carolina*

### ShatterGARD Assistance

The ShatterGARD Company would like to acknowledge the many people personally and otherwise effected by the recent tragedy. Over the next four months, a portion of all BlastGARD window protection film proceeds will be donated to various relief funds. ShatterGARD is committed to lending financial assistance during this time of need.

*Jordan Frankel  
President*

### A Treasure of Information

I purchased Jake Jakubowski's "The Fifteen Minute Safe Opening Technique" when it first came out, and it is a treasure of information. I had never opened a round door by shearing the bolts, but today I had one that the combo was working and nothing would move. After making sure the door wasn't jammed, I decided to try your method. It worked fine and I'm glad to add it to my arsenal, however, I couldn't go from a 1/4" bit to a 5/8". I had to use an in between size before the 5/8" would get a good bite.

I want to thank you for the good book and even using three different size bits, and it being my first time, I still opened it in 40 minutes. Not bad! Next time I'll do better.

*Bob Williams  
California*

### NSP Collection Measures

First let me say that you gave some good points in your September, 2001 editorial (Make them pay or give them the boot!). I'd like to add another regarding NSP's since I handle all customers equally.

To my constituents, Certified Professional Locksmiths/Security Professionals, while I totally agree with Marc's article, there are times when that slowness in payment remittance, signals either no intent to pay, or they may be stonewalling to get bankruptcy over. I encountered this on one subject who

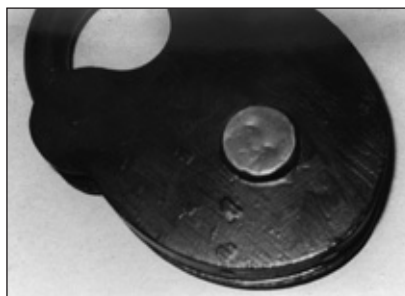
was president of a not-for profit organization.

One thing I found to be 95% successful, is after you've submitted your invoices correctly, sent them three statements and no checks have been received, the Fair Debt Collections Practices Act, provides a legal means where you can turn the bills over to a collection agency. You can even do bad checks this way.

What the agency I deal with does is collect the total amount owed, plus their fee. When collected they send the amount owed the business to the business, charging the consumer 25% of that debt as their fee. What happens is they wind up paying more than if they'd paid the legal balance.

*Willie Bowen  
E-mail*

### ID Me



I am writing to see if you can help me get some information on an old lock. I found it in an abandoned house about 35 years ago in the mountains of Virginia.

Mr. Bob Cooke, who is a Master Locksmith here in Ahoskie, told me that you people could help me. He has seen the lock and told me that it is very unusual and valuable.

I would greatly appreciate anything you can tell me about the locks origin and its history. I would like to know the value of the lock, and if I decide to sell it, what would be the best avenue for me to take.

I am enclosing a front and back picture of the lock. It measures 3-1/8" wide by 4-1/2" tall. It weighs 13 oz. The lock is all black metal.

The keyhole plate and cover is brass. The lock is in perfect condition but has no key.

Thank you very much for your help.

*Bobby Womble  
North Carolina*

### Irate Customer

Something happened to me this evening that is bugging me! After work I stopped off at a market to pick up some dinner supplies. I bought the goods and when I came out of the store I saw some commotion going on outside.

As I approached my van a lady came up to me and told me that she locked her keys in her car and that the security guard was really having a go at her window and weather-strip. She was worried that he was doing more harm than good. I told her no problem and grabbed my gear and walked over to the car with her. As we approached the car I told her that I would only charge her R100 (about US \$10) as opposed to my usual R150. (I was already there).

At this point she completely flipped and started going crazy. First she attacked my ethics, then my morals, questioning what kind of a person I was and on and on. The thing that really bothered me was that she was giving this academy award winning performance in front of about 15 people (the usual crowd of onlookers which is not good advertising).

At this point she tells me to forget it and would rather smash a window than pay me to do it. I'm too shocked to even reply and not wanting to taunt the "lady" further I turned around and walked off. As I get in my car (still doubting myself as to whether I should have charged or not), I see out of the corner of my eye a large flat screwdriver being banged into the corner of the window. About a second later a million glass pieces went all over the floor.

In my view she should have paid me to do it properly and not destroy her car. If I have a urinary tract infection I don't get a taxidermist in on the action, am I right?

*Ed Gorgulho  
E-mail*

**TNL**



# Security Café

**DROP IN FOR  
TOOLS, TECHNOLOGY  
& EQUIPMENT**

## Adams Rite New 7300 Compact Strikes

The New 7300 Series Compact Strikes are designed to fit jamb sections as shallow as 1-1/6", with a strike opening of 5/8" x 1-3/8" x 1/2". Their modular design offers complete flexibility as different strikes can be utilized for different applications. This enables the installer to make a variety of models using various faceplates, which saves time and reduces inventory. Many of the same finishes and options of the 7100 Series strikes are also available for the 7300 Series. These new compact strikes can be field converted from fail-secure to fail-safe.



The 7300 Series strikes are comprised of four different configurations depending on the application needed for the compact strike.

These electric strikes are 12 or 24-volt DC devices, which allows remote electrical control of any door equipped with an Adams Rite Series 4500 or 4700 (or similar) dead latch or "key-in-knob" sets.

## Corbin Russwin ED5000 Series Heavy Duty Trim

The Vineyard Collection 900 Series Heavy Duty trim, combines the strength and reliability of Corbin Russwin's heavy duty trim, with the appeal of designer



hardware. Coordinating this new trim with the ML2000 Vineyard Collection makes design continuum possible on projects that demand consistency.

Four new lever designs: Frascati (FR), Merlot (M), Tuscany (TS), and Zinfandel (Z).

Available in the following finishes: 605, 606, 613, 625, 626.

- Available in all functions.
- Lever Release levers for vandal resistance.
- Heavy-duty threaded studs provide additional strength.
- Beveled sides increase attack resistance.
- Heavy-duty solid forged escutcheon resists vandalism and abuse.

In 6-pin cylinder applications, the cylinder is flush with the trim, providing additional security and vandal resistance. All keying options are available, including the new Pyramid' high security mechanical locking system.

The Nightlatch (57) function is also now available in the entire line of heavy-duty trim, including the Vineyard Collection.

## Kaba Ilco's 4400 Oracode Stand- Alone Electronic Pushbutton Lock

The 4400 Oracode KIL (Key-In-Lever) lock is the first electronic pushbutton lock that is completely time-



sensitive, without hand wiring. The 4400 Oracode provides secure access control, using PIN codes that are generated with easy point-and-click Wincode™ software. With the 4400 Oracode, employees can access areas they are authorized to enter for a specified time frame, anywhere in the world, with their valid PIN. There is no need to program the lock for each user. Instead, each user receives a unique, encrypted PIN code that gives access to a specific door(s) for a period of time ranging from hours to a full year. At the end of the chosen access period, the PIN code automatically expires.

The 4400 Oracode features various finishes, colors, is equipped with both visible and audible indicators and is designed to withstand abuse and a wide range of temperatures and ambient conditions. It is capable of handling up to 15,000 doors and includes an audit memory capability of up to 2000 transactions. The 4400 Oracode comes with a two-year warranty.

Rim, vertical rod and mortise devices may now be used with Nightlatch function trim.

## IR Security & Safety's Locknetics on Board Access Control System

Locknetics on Board is a stand-alone system that secures multiple openings with one, easy-to-use management software.



The Locknetics on Board system includes Schlage CM (computer-managed) locks, Von Duprin CM993 exit trim and Locknetics-Universal Controllers. These products are equipped with intelligent electronics, so they can be managed by LockLink access control management software.

The LockLink software provides many of the benefits of an on-line networked system, allows easy assignment of user access privileges, can support codes, iButtons, magnetic stripe cards, and HID proximity credentials.

The Schlage CM locks provide electronics on the secure side of the door, and future product upgrades can



be easily made with programmable firmware, without having to swap out components.

The Locknetics Universal Controller provides off-line access control intelligence to products such as magnetic locks, electrified exit devices, and electric strikes or locks. It is available in the hardwired version (CT502CR) or battery-powered version (CM400CR).

### LaGard Introduces Dual Handed Swingbolt Locking Technology

The Dual Handed Swingbolt is now being offered on La



Gard's LG Basic, SafeGard and LG Audit Locks. Dual Handed Swingbolt Locks are designed to work with safes that have doors that open either on the left or right side of the box. With this feature, safe makers and safe technicians can carry one lock that can be used for both right and left-handed applications, therefore simplifying safe door retrofitting and reducing inventory costs for safe technicians.

### DoorKing Introduces PROXmtr™

DoorKing's new PROXmtr™ RF transmitter combines the function of wireless RF access control, with Proximity Card access control and combining both into a single, compact housing.

DoorKing's MicroPLUS™ RF control products feature rolling code technology. Each time the transmitter button is pressed, the special "sync" code changes, making the



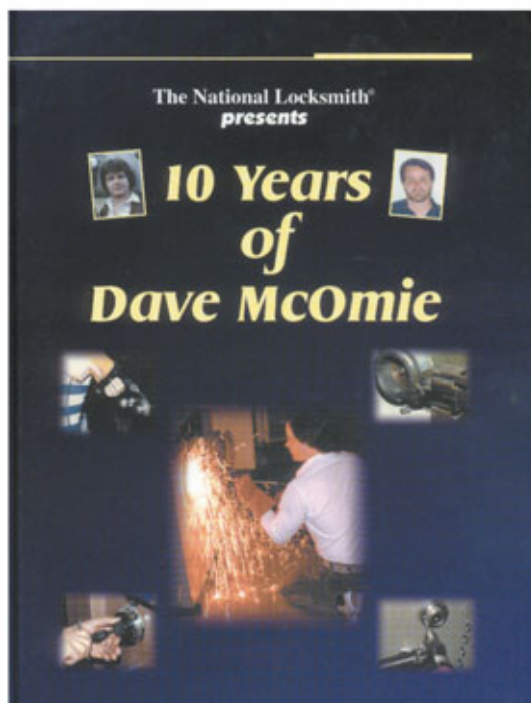
transmitted code immediately obsolete. In addition, the "sync" code is encrypted making duplication of the code virtually impossible.

The MicroPLUS™ RF technology and the PROXmtr™ are available with either AWID or HID proximity card technology built in. PROXmtr™ is ideal for gated communities, apartment complexes, industrial sites and high security government areas using both RF technology to gain access through vehicular gates and proximity card technology to gain entry into a building.

### STI's Fluorescent Light Wire Guard

Called the STI Fluorescent Light Damage Stopper™, this king-size protective cover is designed to protect against vandalism and accidental damage to fluorescent lights. It measures 19.50" (750mm) wide x 53.50" (1359mm) long x 4.00" (101mm) deep and is shipped with all mounting hardware.

As with all STI wire guards, this new cover carries a lifetime guarantee against damage in normal use. It is constructed of 9-gauge welded steel wire with a tough, corrosion-resistant polyester shell.



## 10 Years of Dave McOmie

Every single National Locksmith article by Dave McOmie from August 1986 through August 1996 under one cover!

CLICK HERE TO LEARN MORE





## SECURITY CAFÉ

### Jeron's Spectrum™: Versatile Security Integration

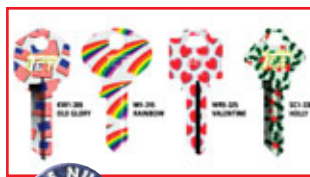
Jeron's Spectrum™ 430/460 Digital Duplex Intercom System provides the unique advantage of having a central communication system, which integrates with a facility's security software or an enterprise-wide command and control network. Spectrum's RS-232 interface allows for seamless integration with remote control systems and

Programmable Logic Controllers (PLC's) to coordinate video camera control, lights, doors and the use of graphic enunciators.

Spectrum is an excellent choice for any location where limited call selection is required and for a mobile staff. Spectrum fully integrates with radio pocket page, PBX phones, two-way radios and in-house paging systems, allowing you to contact staff privately without leaving your work. The ability to integrate with virtually any communications and security system, allows Spectrum to be a central part of your security system.

### Jet Expands Groovy Key Line

Jet has added Master and Weiser key blanks and several new patterns to its line of Groovy Keys. Patterns which are available on the new blanks, as well as the existing Schlage and Kwikset



blanks, are Old Glory, Lily, Paisley, Blue Floral, Floral Burst, Jungle Cat, Zebra, Rainbow, Camouflage, Valentine and Holly.

### SDC's Electromagnetic Lock Design Breakthrough

Exclusive to SDC, the fully stabilized electromagnetic lock core design is the most significant technological breakthrough in years. The electromagnetic lamination is cradled and fused within a heavy gauge steel "U" channel, stabilizing the electromagnetic force. The potential for tweaked or separated lamination is eliminated while applied stress is stabilized evenly throughout the core.

The EMLock may be repeatedly stressed to the breaking point without reduction of holding force. An inherent benefit to the design is the elimination of epoxy. The potential for toxic fumes in a fire is eliminated and a complete architectural appearance provided. While very rare, all parts including the magnetic core are replaceable without removing the lock from the frame, saving considerable time and expense. EMLock holding force is BHMA certified and complies with positive pressure requirements of standard UL10C and is classified in accordance with UBC 7-2 Fire Test for Door Assemblies.



### Von Duprin Introduces 5100 Electric Strike

The 5100 Electric Strike is easy-to-install and was created for medium-duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments. Each electric strike kit comes standard with three faceplates, for wood, aluminum or hollow-metal frames. An internal 12/24 VDC solenoid can accommodate both voltages without the purchase of additional conversion kits.



The back box has a depth of 1-11/16", which reduces the need for additional cutting of the frame, and a keeper depth exceeding 1/2", sufficient to accommodate all cylindrical locks and most dead latches. The fail-safe/fail-secure option can be easily changed in the field. A horizontally adjustable keeper provides additional versatility after the strike has been installed. Mounting tabs and a retrofit kit are included with every strike to provide a clean finish.

It is competitively priced and is covered by the standard Von Duprin Electrical Product Warranty. The 5100 electric strike is ANSI/BHMA 156.5 Grade 1 compliant and has achieved the UL 1034 Burglary listing. **TLL**



## 15 Minute Safe Opening



This book deals exclusively with round head lift out doors. Shows five ways to open a Major; three ways to find the Dog Pin on a Major; four ways to open a Star; four ways to open a LaGard style round head.

CLICK HERE TO LEARN MORE





by Jeff Von Haden,  
Master Lock Company

# ILLUMINATING Safety Lockout Violations

Help customers comply with user-friendly safety lockout systems

In 1989, the Occupational Safety & Health Administration (OSHA), introduced new regulations governing safety lockout devices. The ruling, known as the “control of hazardous energy (lockout/tagout) standard,” requires most companies, especially manufacturing facilities, to provide padlocks or lockout systems that can ensure equipment is shut off and all stored energy is released before undergoing maintenance or repair. The ruling also requires companies to place danger tags on the machinery that cannot be locked out, and preferably, add eyelets that can be used to lock out the equipment.

Today, more than 10 years later, safety lockout infractions remain one of OSHA's top five violations. Surprisingly, many companies have yet to establish a standardized lockout program to comply with OSHA regulations.

Instituting an effective lockout program doesn't have to be difficult. Better yet, it's a service that you can offer to your customers to help them comply with this important Federal regulation.

## KEY POINTS

To help your customers comply with the safety lockout standards, let's review the key points of OSHA's safety lockout regulation as it applies to padlocks. (The complete standard is available on OSHA's web site [www.osha.gov](http://www.osha.gov). It is OSHA 29 CFR 1910.147.)

In brief, the lockout and tagout devices shall be personally identified; shall be the only devices used for controlling energy; shall not be used for other purposes (like locking toolboxes or employee lockers); and shall meet the following requirements:

**Durable** - Capable of withstanding the environment they are used in (temperature, chemical, moisture, and UV rays from the sun or lighting).

**Standardized** - Lockout devices shall be the same within the facility, either in color, shape, or size. They must be different in appearance to padlocks that are used for security.

**Substantial** - Should prevent easy removal without the use of the key or by using excessive force or tools, such as bolt cutters, pry bars or other metal cutting tools.

**Identifiable** - Must include the identity of the employee applying the lockout device.



1. Photo identification labels.



### INSTANT ID WITH PHOTOGRAPHS

One of the key elements of lockout is to clearly identify the owner of the padlock. An employee name or number can be laser engraved or written on a label applied to the padlock. However, within large manufacturing facilities, it is common to have employees that are relatives or share very similar names. This could cause a supervisor or another employee to incorrectly identify the lock's owner, which could lead to injury.

This problem is solved with Master Lock's new photo identification labels. A photo of the employee is placed on the padlock for positive identification (*see photograph 1.*) The photo makes it virtually impossible to mis-identify the padlock's owner. Correctly identifying the padlock owner can help prevent an injury or even loss of life.

Two Master Lock safety lockout padlocks (the tall No. 411 Xenoy™ padlock and the aluminum padlocks Nos. 6835 and 6836) allow photo identification labels to be applied to the padlocks. In addition, the photo ID labels have space for the employee's name and ID number or department name.

Master Lock has found that the inexpensive Polaroid iZone™ Camera provides photos that are the ideal size for use on the padlocks (*see photograph 2.*) The camera is available for



2. Polaroid iZone™ Camera.



3. A variety of Master lockout/tagout products.



less than \$25 at most local retailers. Film is usually \$15 or less for 36 exposures.

By keeping a camera and labels on-hand, safety lockout padlocks can be easily issued to new employees or contractors who many need to service or maintain equipment.

### SAFETY LOCKOUT REQUIREMENTS

Designing a comprehensive safety lockout system that complies with OSHA regulations for any company, especially those with a large number of employees and equipment, takes time, training and experience. There are many lockout padlocks on the market and the key is finding padlocks that not only meet OSHA standards, but also are right for your customer's needs.

Master Lock Company, the largest safety lockout padlock manufacturer, offers a variety of lockout/tagout padlocks designed to help companies develop, implement and update facility lockout systems to meet OSHA requirements (*see photograph 3*).



**4. Up to eight colors and several shackle lengths are available.**



**5. Photo labels, brass tags, and laser engraving are all offered.**

Master Lock safety lockout products meet all of the requirements for lockout padlocks:

**Durable** - Master Lock offers three lines of padlocks constructed of various materials. Each line is durable and can withstand rugged industrial conditions.

**Standardized** - The padlocks are standardized by size and appearance. With up to eight colors and several shackle length options, a system can be created that standardizes by craft, responsibility, department, etc., within the facility (*see photograph 4*). For example, electricians can be provided yellow-body padlocks, maintenance staff can receive red-body padlocks, etc.

**Substantial** - Materials are designed to withstand harsh environments and each padlock line offers distinct advantages, depending on the industrial environment.

**Identifiable** - Photo labels, brass tags, and laser engraving are all offered to make lock identification easy (*see photograph 5*).

### SAFETY LOCKOUT PRODUCTS

Master Lock offers three distinct lines of lockout padlocks to effectively function within virtually any lockout environment. The padlocks come in aluminum, steel or Xenoy™ composite and feature extensive key changes to meet the requirement for no duplicated keys.

#### THE PRODUCT LINE INCLUDES:

**Lightweight Xenoy™ padlocks (Nos. 410 and 411)** - These padlocks were designed by safety managers to meet their specific needs. With up to 100,000 unique key changes available, the one employee, one key requirement is easy to meet. The Xenoy™ thermoplastic bodies withstand corrosive and rugged industrial environments. Program standardization is easy with eight bright colors and two body heights. Permanent write-on labels or photo identification labels allow for easy on-site customization. In addition, the padlocks are lightweight, so employees can easily carry several padlocks with them while servicing equipment.

**High-visibility aluminum padlocks (Nos. 6835 and 6836)** Lightweight, strong and secure, the aluminum padlocks feature a Pro-Series cylinder that offers over 100,000 key changes (*see photograph 6*). The dual ball



**6. Aluminum padlocks feature a Pro-Series cylinder that offers over 100,000 key changes.**



bearing locking mechanism resists prying. The aluminum padlocks are rekeyable and the 6836 features an interchangeable core. This means that when an employee leaves the company, the padlock can be easily rekeyed so that the padlock will open with a key that is different from the previous owner. This can help reduce costs for companies that experience significant turnover and want to precisely adhere to the one key, one owner concept. Three shackle lengths allow the padlocks to fit a variety of lockout applications and six colors allow for system customization. Laser engraving is available for easy identification, in addition to the photo identification labels.

Steel body padlocks (No. 3) - Laminated steel bodies and hardened steel shackles provide solid protection against physical abuse, cutting, and prying. Six bumper



**8. Lockout hasps designed to hold up to six padlocks.**



**7. Laminated steel bodies and hardened steel shackles provide solid protection.**

colors and three shackle lengths provide easy lockout identification and flexibility (*see photograph 7*). Ink-stamped key numbers on the padlock and the availability of hard-stamped brass ID tags, allows you to match the lock with the user.

Master Lock also offers lockout hasps (Nos. 420 and 421), designed to hold up to six padlocks and/or other lockout hasps, permitting protection of an entire service team (*see photograph 8*).

### **CUSTOMIZATION SERVICES**

Some companies take the extra step when designing a safety lockout system to request padlocks that are unique to that company. They will have the company logo and a safety warning lasered onto their padlocks, so they stand out from conventional padlocks used for security purposes. In addition, the company-identified padlocks are less likely to be stolen, because they are easily distinguishable from padlocks available to consumers.

### **KEY CHARTING SERVICES**

The locksmith can offer an industrial user their expertise in keying. Some facilities can have hundreds of safety padlocks and the locksmith, in conjunction with Master Lock's key charting service, can keep track of each key code used in a facility. This helps ensure that as the system is expanded or locks are replaced, new unique key numbers are used and the possibility of a duplicate key being assigned to two employees is virtually eliminated.

### **FINAL THOUGHTS**

Some companies may request to have their safety lockout padlock system master-keyed. Master Lock provides this feature, but some safety managers frown on this type of system because it is "too easy" to remove a forgotten lockout padlock. For example, let's say an employee was servicing a conveyor and left for the day without removing the lockout padlock. A procedure must be in place to ensure the employee is notified their lock is being removed prior to its removal. The padlock can only be removed when it had been undisputedly verified the employee would not be in danger should the conveyor be activated.

With the master key system, some safety managers are afraid that the protocol for padlock removal may not be followed in its entirety. If the staff needs to obtain a bolt cutter to remove the padlock, it's one more important reminder that the removal of the safety lockout padlock is not to be taken lightly.

You can provide an important service to your industrial customers by making sure that they have an effective safety lockout/tagout system that adequately protects their employees. Helping them select the proper padlocks and working with them to assure proper employee identification will go a long way to complying with OSHA standards and ensuring you of a customer for life.

*For more information on the Master Lock Company line of safety lockout/tagout padlocks, call: (414) 444-2800. Circle 300 on Rapid Reply.*



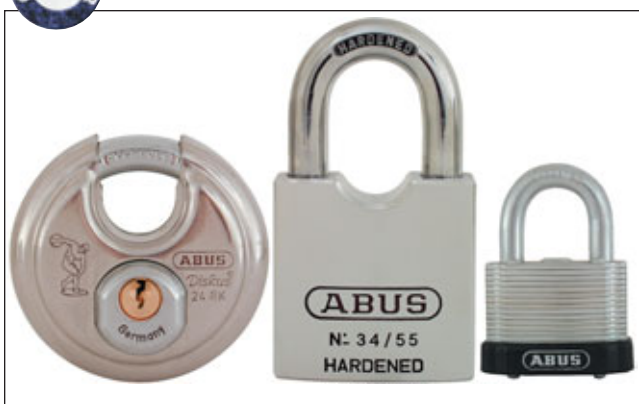


# Padlocks

## the locking solution

Available in every size, color, security level and configuration imaginable, padlocks offer locking solutions that in some instances would otherwise be impossible to achieve.

### ABUS Cross Keying Padlocks for Different Security Levels



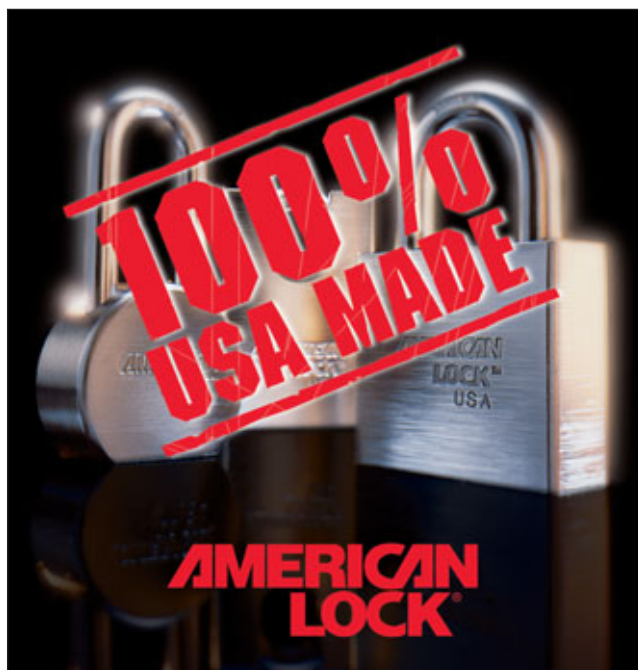
ABUS Padlock Company has always prided themselves on providing high quality product versatility in the padlock marketplace. More and more we find that customers are seeking different levels of padlock security to operate on the same key. The ease of rekeying a heavy weight ABUS padlock or the bolt-cutter resistant Diskus®, to the more traditional ABUS laminate steel padlock, gives the locksmith or security professional a leg up on controlling security systems.

Now all locksmiths can benefit from this feature. The Stainless Steel Rekeyable Diskus® can easily pin up to any of the ABUS 41 Series Laminated Steel Padlocks. The new ABUS “Heavy Weight”, all solid steel #34 Series, can also pin up to the ABUS 41 Series.

The ABUS #24SK1 Pinning Kit, which was introduced to service the Rekeyable Diskus® line of products, can also be used on the new “heavyweight” #34 Series solid steel padlock.

If a customer wants the convenience of a bolt-cutter resistant, stainless steel, all weather Diskus® to compliment an already existent ABUS 41 Series Laminated Steel Padlock, it is easy to accomplish with ABUS. ABUS Padlocks - three different security levels and padlock configurations, all capable of operating on the same key. That's a profit-making feature worth selling from ABUS.

### The Tough American Just Got Tougher



For more than 90 years, American has offered professional locksmiths some of the toughest, most reliable locks on the planet. And now, with their Pro-American Series™ of solid body padlocks, American is offering even more: a promise that every single component—every spring, every pin, every shackle, every body—will be 100% USA Made. A promise they are so committed to keeping, they've stamped it right into their locks.

What does that mean for you? It means when you order Pro-American, you get padlocks that have undergone the strictest quality control anywhere. So when the time comes to service one of their locks, you know the replacement parts will be a perfect fit.

And, because they never have to deal with international shipping issues, it means you'll enjoy the fastest delivery time in the industry. In fact, thanks to the exclusive Lock



Express Service, American is the only lock company that can ship custom-made solid body padlocks anywhere in the U.S. within 24 hours.

Plus, they offer permanent laser engraving for fast, easy identification in safety lock-out environments or employee locker identification, as well as pad printing for company logos, custom stamping services, key charting and multiple padlock keying options.

With benefits like these, it's easy to see why choosing the Tough American is never a tough choice.



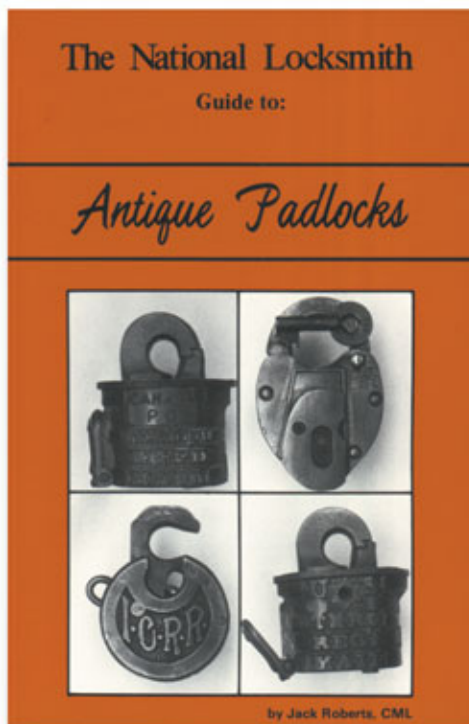
## CCL's Promotional Products Division

Simply stated, CCL places your company logo or special message on a Prestolock, which has a special area for application of a high quality, clear epoxy domed label. The results of this process will be the satisfaction your customers or employees will receive from a high quality, meaningful gift and the long lasting benefits of personal security for years to come.

What a nice way to say thank you to customers, or to reward the efforts of an employee, such as employee of the month.

The company offers many different finishes and locks, with key or combination access, in sizes ranging from the very small luggage lock, to heavy-duty commercial locks.

Applications from the travel industry, to the construction trade, have found many useful ways to incorporate their company information for display on a padlock.



# Antique Padlocks

Finally there is a book to give you all the information you need about old interesting locks.

[CLICK HERE TO LEARN MORE](#)



#PAD - 1



## Federal Locks Quality Padlocks



In the early 1990's, Federal Lock introduced their line of solid steel and brass rekeyable padlocks. A few years later Federal expanded the line with their color-coded, solid aluminum safety locks. Most recently, Federal Lock added brass and steel interchangeable core padlocks to the line.

Federal's solid steel and brass locks all come with rekeyable 6-pin brass cylinders, which allow thousands of key changes. These locks are available keyed differently, keyed alike, master keyed, and grand master keyed. They are available in a standard keyway or restricted keyways, to provide increased security. All these locks come with double ball locking mechanisms and hardened steel cover plates. These locks come with one, two, and three inch shackles, in hardened stainless and molybdenum steel, to meet your security needs.

Federal's quality padlocks were designed for effective security and are easily serviced by the locksmith. Our Customer Service Department will work with the locksmith and their distributors, to meet their specials, and in competing with the local discount home center or hardware store, as Federal does not sell into that retail market. Federal Lock can meet your special needs and can provide fast, courteous, and efficient service at cost effective prices.



## W-Lok Stainless Steel Security Solutions



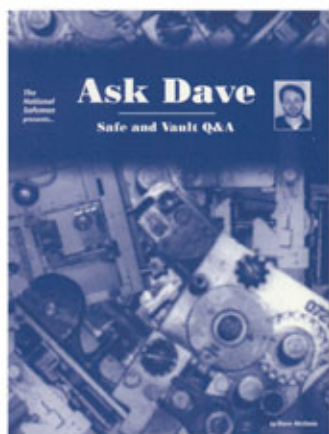
W-Lok Corporation has a full line of 100% stainless steel locks for any security application you may have. PadLok®, PinLok®, VeraLok®, MegaLok®, ShackleLok® and LoopLok® are all made from 100% stainless steel. Not only the lock bodies are 100% stainless, but the shackles, cylinders, rotating-discs (tumblers) and even the shackle springs are made entirely of stainless steel.

W-Lok products carry a 100-year mechanical warranty and are highly impervious to physical and environmental attack. In addition, key lock and key safety are assured with W-Lok's patented 270/360-degree rotating-disc cylinder design. The key includes a serial number and one-of-a-kind password when it is cut at the factory to protect against unwanted duplication. W-Lok also offers master key, key alike and key different systems.

W-Lok conducts extensive research and development, which has resulted in multiple worldwide patents on all of their lock systems. When failure is not an option, take a look at W-Lok's complete line of stainless steel solutions.

TNL

## Ask Dave



You asked. He answered.  
This is safe and vault Q&A with an attitude.

CLICK HERE TO LEARN MORE



#AD - 1



# Quick Entry

## UPDATE

by  
Steve  
Young



### 2001 DODGE DURANGO & DODGE DAKOTA

In 1998, when the Dodge Durango was introduced, it was billed as the “Breakthrough Vehicle.” (See photograph 1.) This was because it was the first so-called “paperless” vehicle to be introduced by Chrysler Plymouth. A “paperless” vehicle is one that has been designed totally on computers, without the help of the traditional “drawing-board.” All of the components were designed, and in many cases tested, by computer before the first part was actually built.

I always felt that the “paperless” claim was a bit exaggerated since the Durango is essentially a sport-utility version of the Dodge Dakota body that was introduced the year before. The Durango shares many parts with the Dakota, including the doors. If you know how to unlock the Dakota, you also know how to unlock the Durango.

I was fortunate enough to get a private tour of the Durango plant in Delaware in September of 2000. At that time, over 700 vehicles were coming off the assembly line each day. Not all of those vehicles were headed for the streets of the USA, however. Many of them were destined to be shipped overseas. But, any way you look at it, 700 plus vehicles per day is a lot of trucks.



1. The 2001 Dodge Durango.



2. The short end of the TT-1003 tool will be inserted between the wedges.



### Quick Reference Guide

**Vehicle:**

2001 Dodge Durango  
and Dodge Dakota

**Direction of Turn  
(passenger side):**

Counter Clockwise

**Tool:**

TT-1003 (short end)

**Lock System:**

8-Cut Chrysler, Sidebar Ignition  
and Plate-Tumbler (wafer) Style  
Door Locks

**Bitting:**

Ignition 1 - 8, doors 2 - 8,  
compartment 6 - 8

**Security System:**

Optional Transponder System  
(Sentry Key)

**Lock Manufacturer:**

Strattec

**Code Series:**

M0001 - M2618

**Transponder Key Blank:**

Strattec: 690230, Ilco: Y160-PT,  
Jet: Y160C-PHT

**Non-Transponder Key Blank:**

Strattec: 690500, Ilco: P1795,  
Jet: Y159



**3. The lower of the two diagonal linkage rods is the inside lock control linkage.**



**4. Lever the lower linkage rod forward to unlock the door.**

At the time I was there, they had just made the changeover to the 2001 model year vehicles. One of the first things that I noticed was that well over half of the vehicles I saw were equipped with the telltale gray-headed transponder keys. In addition, for some reason that is still not clear to me, the inside lock control linkage had been changed from the vertical linkage that was used from 1998 to 2000 to a new horizontal linkage. In my experience, it is very unusual for a manufacturer to change the lock linkage unless the vehicle is also being "re-skinned." But in this case, both the Durango and the Dakota got horizontal inside lock control linkages for 2001 while the rest of the vehicle remained essentially unchanged.

To unlock the 2001 Durango or Dakota, begin by wedging open the weather-stripping at the base of the window directly above the outside door handle on the front door. Next, insert the short end of the Tech-Train 1003 tool into the door. (See photograph 2). You can also insert an inspection light into the door to help locate the linkages, but the linkage can also be located by feel quite easily.

Lower the tip of the tool until it is just below the base of the outside door handle, then rotate the tool toward the inside of the vehicle. While watching the inside lock control rocker for movement, probe for the lower of the two diagonal linkage rods inside the door. (See photograph 3.) Hook the end of the tool onto the lower linkage rod, and

then lever the linkage forward in order to unlock the door. (See photograph 4.)

Inside the door, the two linkage rods run diagonally from the latch to the inside door handle assembly. Each of the rods is enclosed in a soft cloth anti-rattle tube. This anti-rattle tube is not designed to keep you from gripping the linkage, but it may cause your tool to slip. As you grip the linkage, be sure to twist the tool so that you bind the linkage before you lever the linkage rod forward.

The doors on the Dakota and Durango have a substantial frame around the window glass. This enables the Jiffy-Jak Vehicle Entry System to also unlock them quickly and easily through the front door.

TNL



Part Two

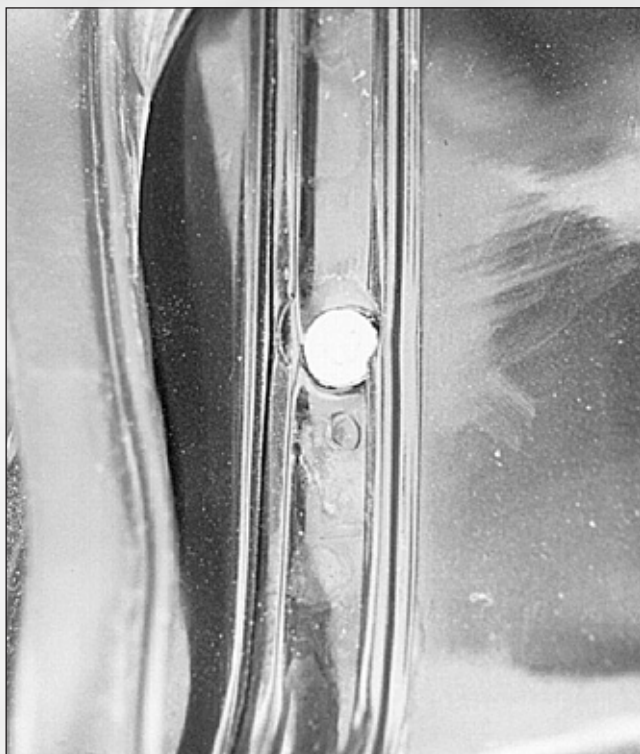
1994



740i

by Michael Hyde

*In the last installment we covered the ignition lock and partially removed the door lock. This month we conclude by completing coverage of the door lock and procedures for making a key.*



1

On the rear lower section of the door, there is a hidden bolt underneath the rubber weather-stripping that must be removed in order to remove the rear window track on the front door.

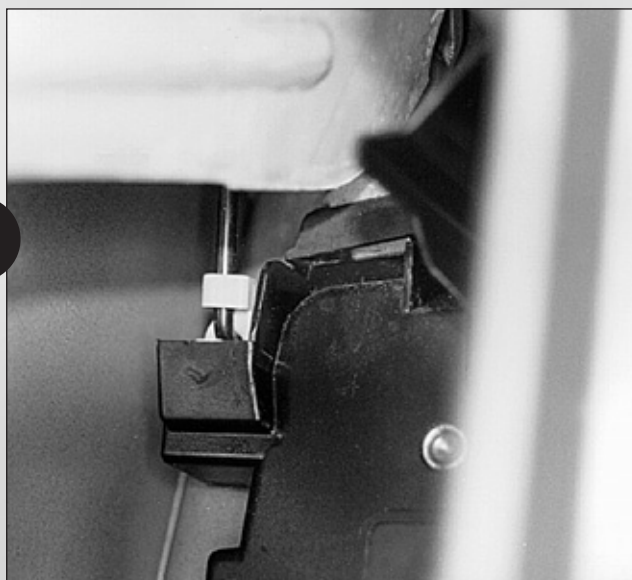


2

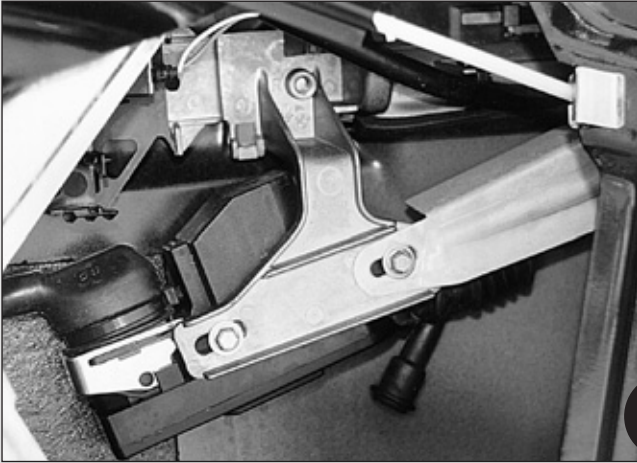
Once the bolt is removed, the track will slide out.

The door lock and handle assembly must now be removed. To do this, first disconnect the door lock cylinder linkage rod from the latch assembly.

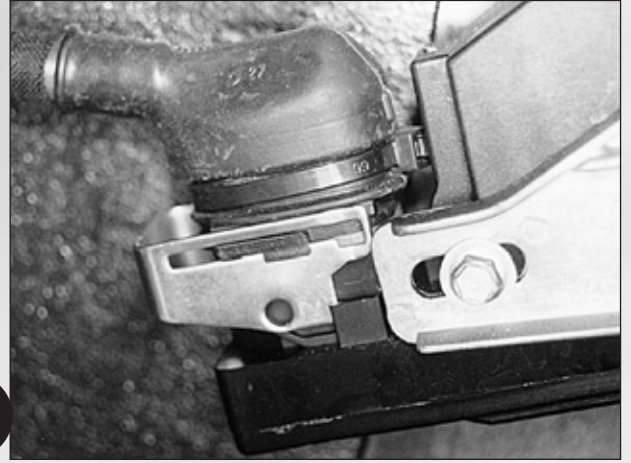
3



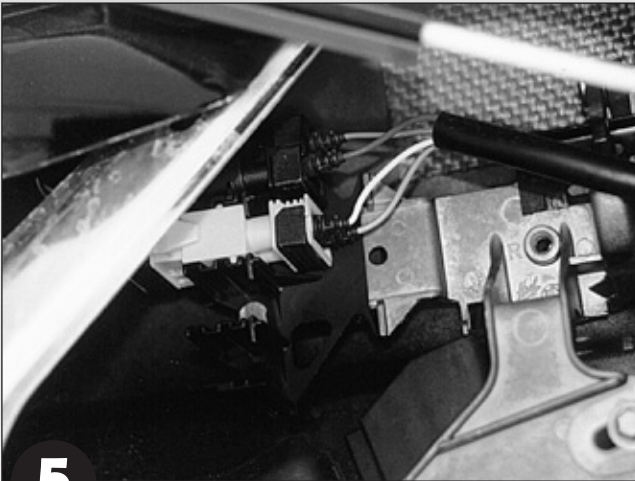




4



The next step is to remove the large black electrical connector that is connected to the door lock handle assembly. Slide the metal clip to unsnap the electrical connector.



5

There are a couple of other electrical connectors above that also need to be disconnected.

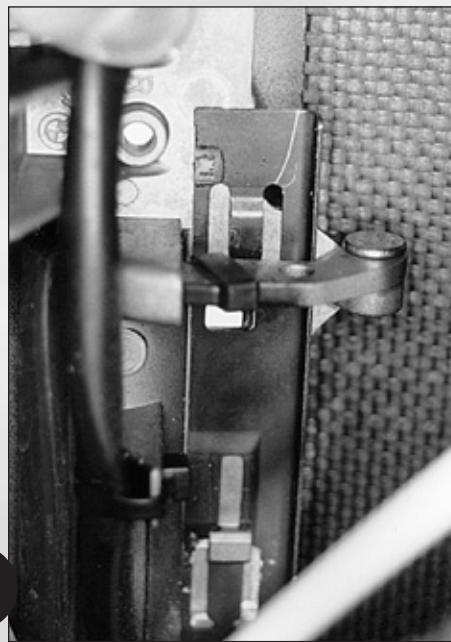


6

The next step is to remove the rubber boot on the very edge of the door.



7



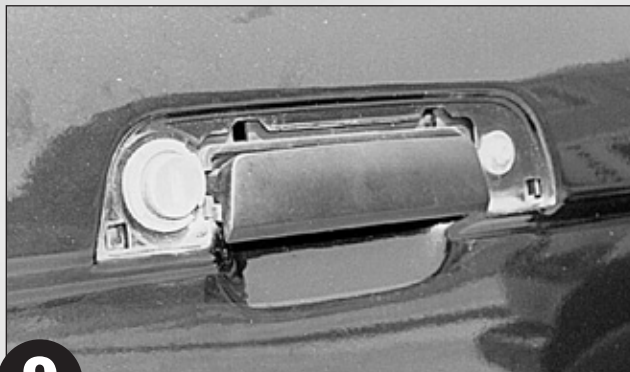
Push in on the metal locking bar with a small screwdriver to release the front lock trim plate.





8

Once the outside trim plate is released, tip it out from the top to remove it.



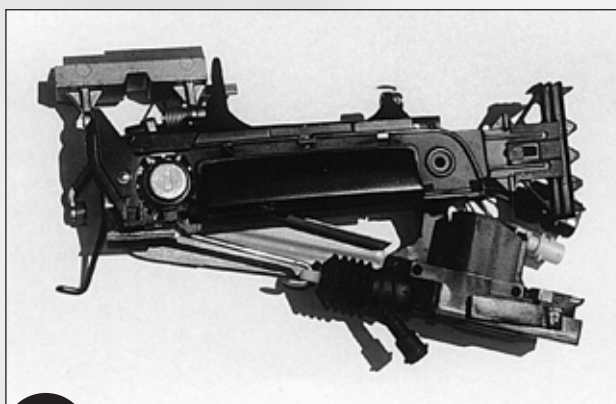
9

Remove the Torx 25 bolt that sits opposite the door lock cylinder.



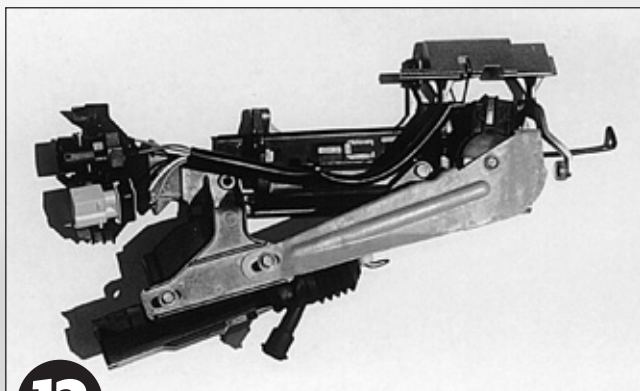
10

10. Remove the large circular nut from the face of the lock cylinder.



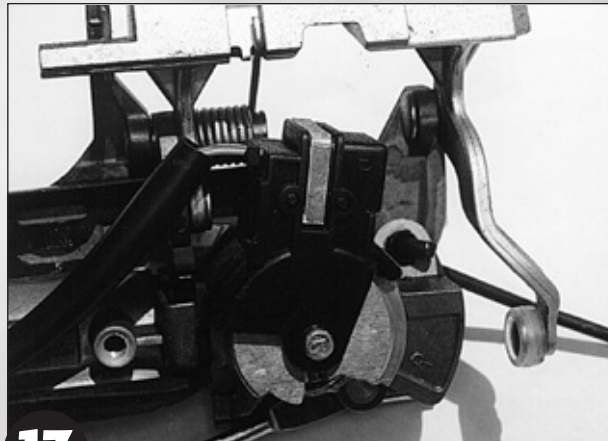
11

The whole lock/handle assembly can now be removed from the car.



12

On the backside of the assembly is a shield that needs to be removed. There is one 6mm bolt and one 8mm bolt that must be removed.



13

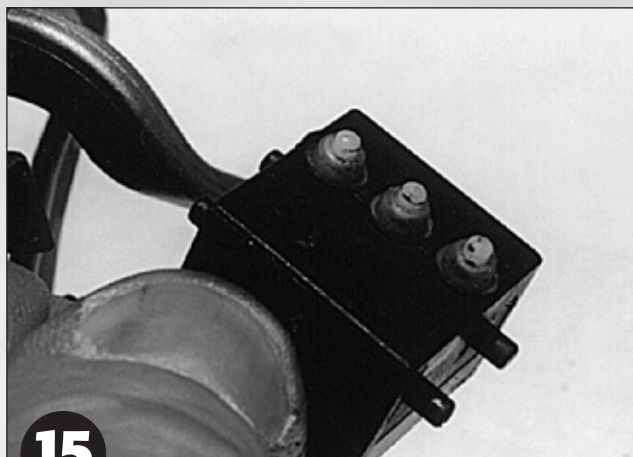
With the shield removed you can gain access to the backside of the lock cylinder.





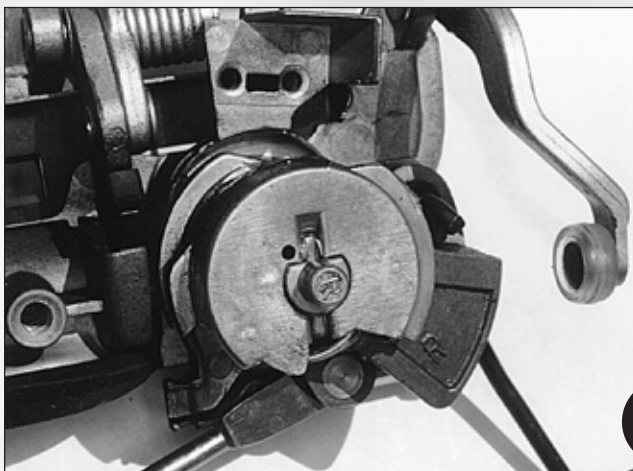
**14**

Remove the electrical connector off the backside of the lock by sliding the clip up and off.



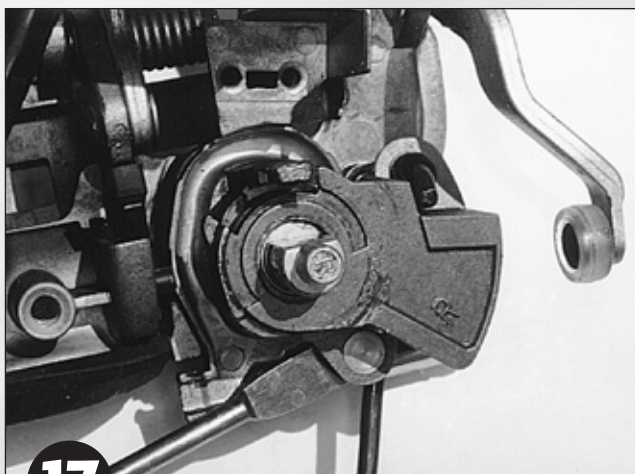
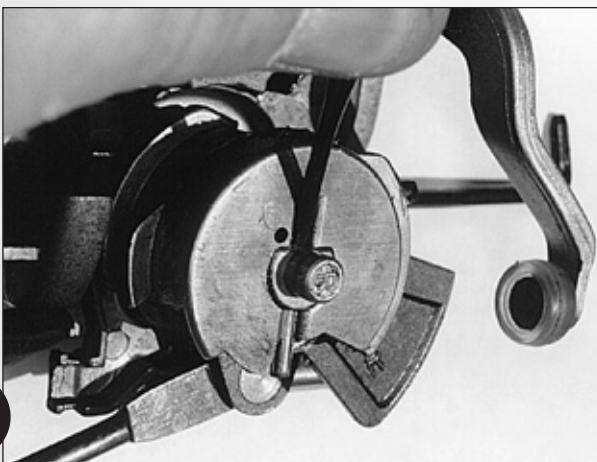
**15**

The electrical connector contains 3 micro-switches.



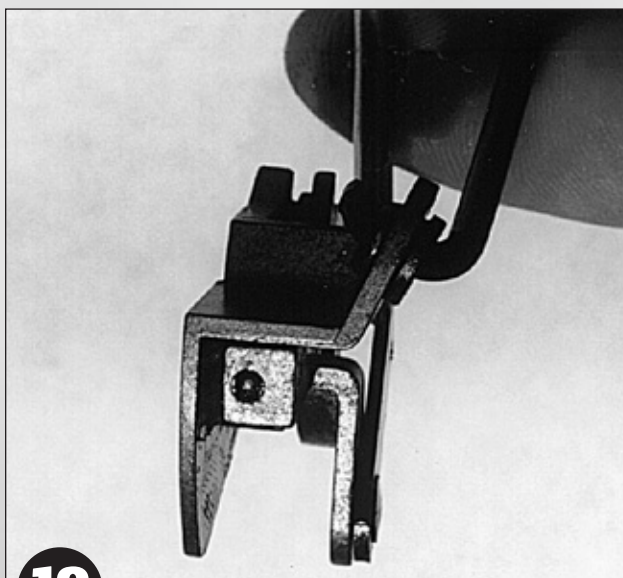
**16**

To disassembly the lock cylinder you will need to remove the roll pin with a pin punch as seen in the photos.



**17**

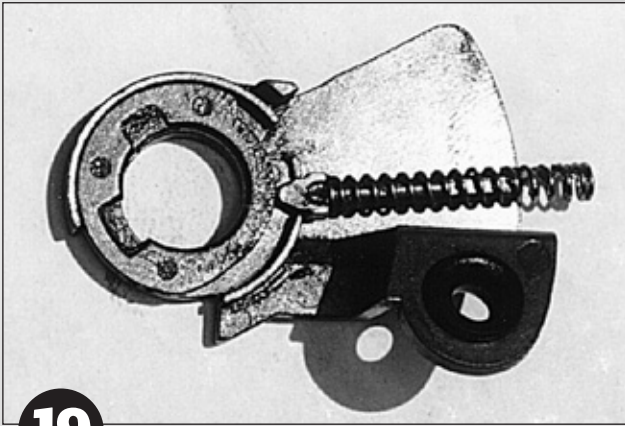
Next, carefully remove the linkage rod actuator assembly.



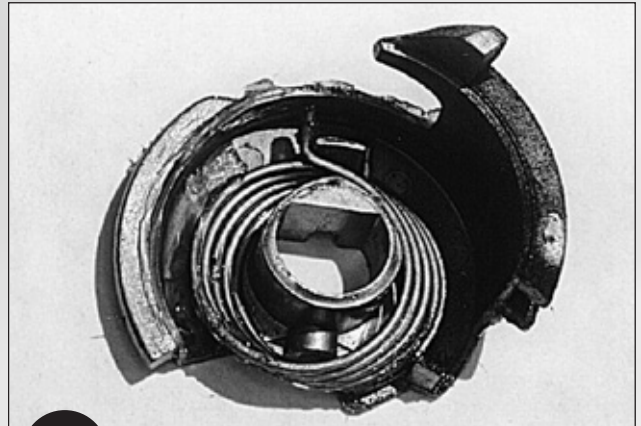
**18**

A side view of how the actuator assembly looks.

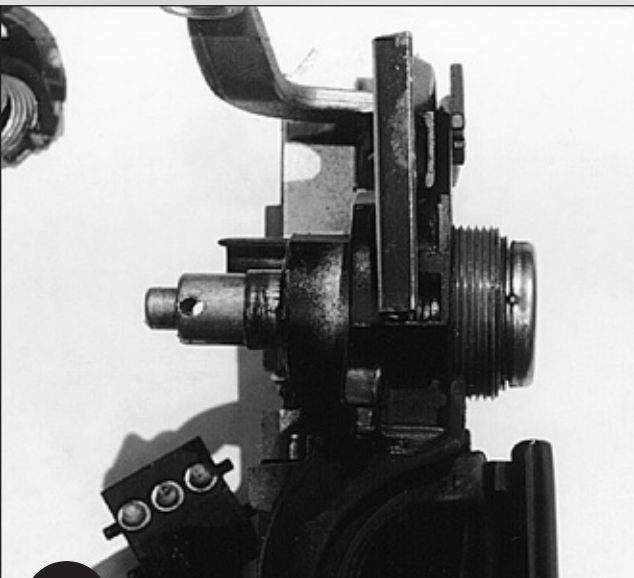




**19** A view of the inside of the door lock actuator linkage.



**20** Next, gently remove the spring loaded lock cam assembly.



**21** Now you can remove the door lock cylinder plug.



**22** Note: Be careful when removing this plug because there is a hidden ball bearing and spring underneath the face of it.

## Making 1st Key

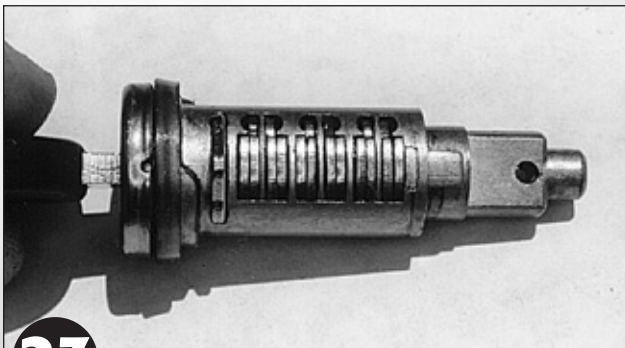
### Method #1

Remove the glove box lock and disassemble the lock to decode the wafers. This will give you cuts 2-3-4, left & right. You will still need to either progression or impression cuts 1-Left & Right in the trunk. The tumblers in the second to last chamber of the factory ignition, 5 left & right, are made so that any key will operate them. They are not needed to make an ignition key. If you make a key by this method, the key will not operate the alarm or deadlocks since cuts in position 5 & 6, left & right are missing and it can be difficult to impression the doors because of the construction. Tumblers 5 & 6, left & right are not in the truck lock.

Use BMW SmartSearch computer program to determine the missing cuts once you know the glove box cuts. This is a real time saver. Contact National Auto Lock Service for current pricing at: 650-757-0700.

### IMPORTANT NOTE:

Last two positions, 5R & 5L, 6R & 6L, the depths always add up to 7 or 9. There is never more than one number repeated. There is never a number 4 depth in those positions either.



**23** Once you get the plug cylinder out, you can see it contains 12 solid tumblers. Just remember your first tumbler, which is the one closest to the bow, is always a left-hand tumbler. The sequence of tumblers from the bow is as follows: left, right, left, right, and so on.



### Method #2

Remove the trunk lock and disassemble, but remember when you take it apart that there are either one or two ball bearings under spring pressure; one might be located in the tailpiece cam assembly and one should be in the plug. The trunk lock will contain tumblers in positions 1 through 4, Left & Right. When you have done this, the key should start the car. The tumblers in the second to last chamber of the factory method, the key will not operate the alarm or deadlocks since cuts in position 5 & 6, left & right are missing and it can be difficult to impression the doors because of the construction.

#### IMPORTANT NOTE:

Last two positions, 5R & 5L, 6R & 6L, the depths always add up to 7 or 9. There is never more than one number repeated. There is never a number 4 depth in those positions either

### Method #3

You must remove the door panel and then remove the door cylinder/handle assembly. It is a little tricky, the whole handle assembly and power door lock motor has to come out of the car to get to the cylinder. The cylinder contains all 12 tumblers needed to make the master key. First remove the door panel. On top of the door cylinder/handle assembly is a slide that holds the front handle faceplate on. Pull the slide towards the edge of the door; you should be able to access this from inside the door or through an access hole on the edge of the door. When the slide is pulled, the front faceplate can be removed. Next you will see a large threaded ring encircling the cylinder on the front of the door, unscrew and remove the ring. At the opposite side of the handle, you will see a machine screw that goes all the way through. There is a nut on it inside the

**Key Usage:** All

**Spacing:** Left Track

**Model Info:** High Security Keyway

Bow		Spacing										Tip
1	2	3	4	5	6	7	8	9	10	11	Cut-to-Cut	
0.183	0.311	0.439	0.567	0.695	0.823							

Code Series: BH 010001-240999

HPC1200CM: N/A

ITL Mfgr: N/A

M.A.C.S.: 3

Pak-a-Punch: N/A

Clipper Cam: N/A

Carriage: N/A

#### Key Blanks

Mfgr	Model Number(s)
Ilco	S7BW-P
Ilco EZ	S7BW-P____
Silca	HU58AP
JET	S7BW-PH

#### Depths

1	0.276
2	0.252
3	0.228
4	0.197
5	
6	
7	
8	
9	

**Key Usage:** All

**Spacing:** Right Track

**Model Info:** High Security Keyway

Bow		Spacing										Tip
1	2	3	4	5	6	7	8	9	10	11	Cut-to-Cut	
0.228	0.356	0.484	0.612	0.740	0.868							

Code Series: BH 010001-240999

HPC1200CM: N/A

ITL Mfgr: N/A

M.A.C.S.: 3

Pak-a-Punch: N/A

Clipper Cam: N/A

Carriage: N/A

#### Key Blanks

Mfgr	Model Number(s)
Ilco	S7BW-P
Ilco EZ	S7BW-P____
Silca	HU58AP
JET	S7BW-PH

#### Depths

1	0.276
2	0.252
3	0.228
4	0.197
5	
6	
7	
8	
9	



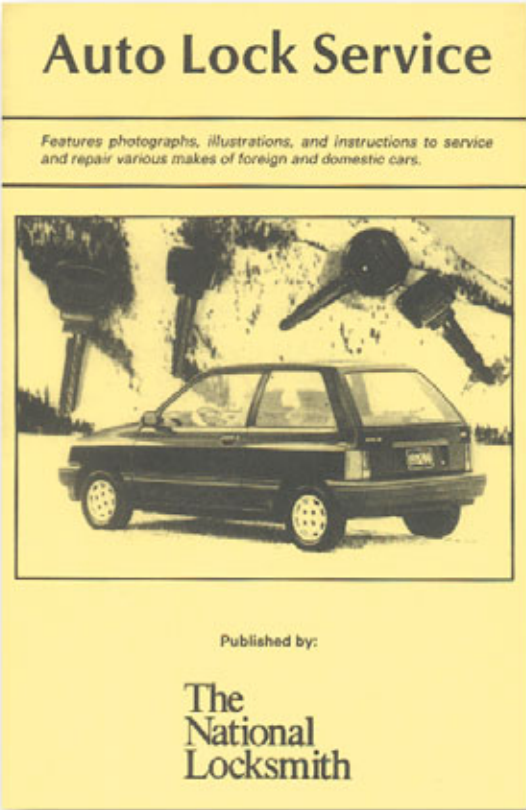
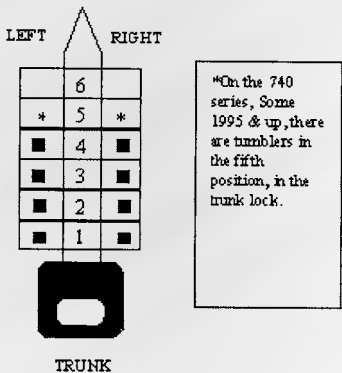
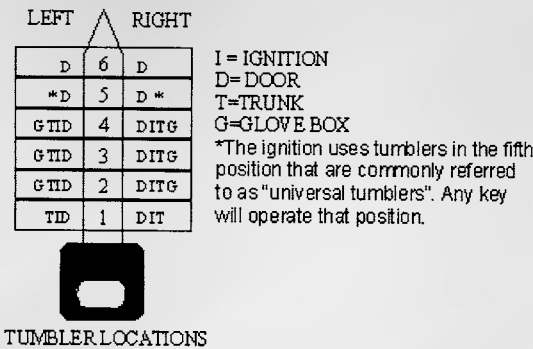
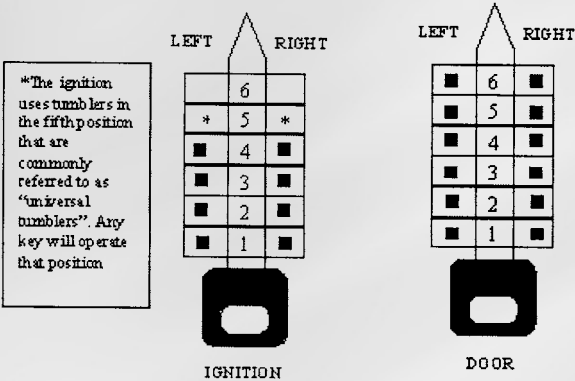
door that must be removed before the screw will come out the front.

Next, unclip the electrical connections and remove the assembly. It may be necessary to move the window track a little bit. To do this, there is usually a hidden screw under the rubber on the window track itself, towards the bottom of the track. With the assembly out, before you disassemble to decode the cylinder, you should mark everything as to where it goes for reassembly. The tumblers are numbered. There are 6 chambers that hold 12 tumblers.

Ignition Retainer

Active Retainer

The ignition lock cylinder is held into the ignition lock housing by what is called an Active Retainer. This means that a working key is required to depress the retainer far enough to release the lock cylinder.



#ALS - 1

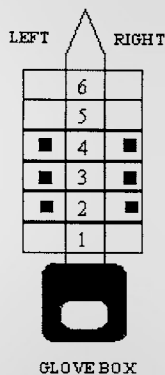
# Auto Lock Service

Covers opening and service techniques.

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Retainers come in all sizes and shapes, from half moon's to square blocks to round looking pins. Some ignition lock cylinders also must be rotated to ascertain position, to allow the tailpiece of the ignition cylinder to line up with an opening in the housing, before you can pull the cylinder out. Ford products are known for this, to have an Active Retainer and an interlocking tailpiece.

#### Progression

No progression available.

#### Airbag Info

Driver Side Front & Passenger Side Front

#### Code Locations

No codes on any locks.

#### Transponder

No transponder on this year's model.

#### Key Blank

**Ilco:** S7BW-P; **Ilco EZ:** S7BW-P;

**Jet:** S7BW-PH; **Silca:** HU58AP

#### Valet Key

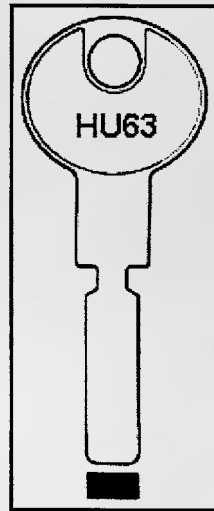
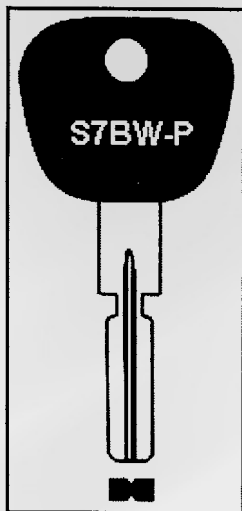
**Ilco:** S6BW; **Ilco EZ:** S6BW; **Silca:** HU59

#### Model Note

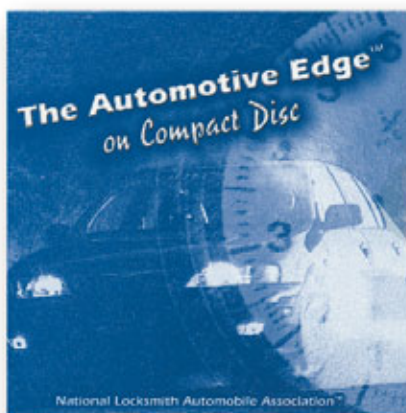
The ignition uses tumblers in the fifth position that are commonly referred to as universal tumblers.

There are 6 chambers that hold 12 tumblers. Left tumblers are numbered 11 through 14 and Right tumblers are numbered 21 through 24. In chamber number 5, the ignition uses tumblers that do not reach the shear line when any key is used. With that fact in mind, you only need to worry about the first four chambers for the ignition, only.

TNL



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#AE - CD

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# DISTRIBUTORS

*This months distributors listings are broken down by regions within the United States and Canada. There are five regions in all. We all have our preferred distributor, but there are always times when an alternative is needed. Reasons for this could be lack of stock, price comparisons, or quantity needs. This regional breakdown will not only inform as to what distributors are strategically located to you, but also the range of their product line..*

## Region 1: Northeast



### Akron Hardware Consultants

1100 Killian Rd.  
Akron, OH 44312-4730  
800 #: 800-321-9602  
330-644-7167, Fax #: 800-328-6070  
Web : [www.akronhardware.com](http://www.akronhardware.com)  
Product Categories : B E F  
See Ad On Page 104



### AmoraTech, Inc.

P.O. Box 100  
Shermans Dale, PA 17090  
717-582-3819, Fax #: 717-582-7549  
Web : [www.ballistol-lube.com](http://www.ballistol-lube.com)  
Product Categories : G

### Andrew's Wholesale Lock Supply

544 S. 9th St.  
Lebanon, PA 17042  
800 #: 800-544-0519  
717-274-8733, Fax #: 717-274-8659  
Web : [www.andrewslock.com](http://www.andrewslock.com)  
Product Categories : F

### Avco Key Supply

220 Church St.  
Northport, NY 11768-3006  
800 #: 800-332-5397  
516-261-6453, Fax #: 800-329-5397  
E-Mail : [sales@avcokey.com](mailto:sales@avcokey.com)  
Web : [www.avcokey.com](http://www.avcokey.com)  
Product Categories : F G

### Bell's Security Sales, Inc.

426 Bloomfield Ave.  
Bloomfield, NJ 07003  
800 #: 800-772-2266  
973-743-3709, Fax #: 973-743-6357  
Product Categories : A B E F G  
See Ad On Page 30



### Blaydes Industries, Inc.

2335 18th St. NE  
Washington, DC 20018  
800 #: 800-424-2650  
202-832-7100, Fax #: 202-832-1359  
E-Mail : [blaydesind@msn.com](mailto:blaydesind@msn.com)  
Web : [www.blaydesind.com](http://www.blaydesind.com)  
Product Categories : A B C E F G D



### Boyle & Chase, Inc.

P.O. Box 74  
Accord, MA 02018-0074  
800 #: 800-325-2530  
781-337-3904, Fax #: 800-205-3500  
E-Mail : [sales@boyleandchase.com](mailto:sales@boyleandchase.com)  
Web : [www.boyleandchase.com](http://www.boyleandchase.com)  
Product Categories : B D E F  
See Ad On Page 37

### Clark Security Products

104 Clematis Ave.  
Waltham, MA 02453-7013  
800 #: 800-746-5625

4720 Boston Way Suite K  
Lanham, MD 20706-4310  
800 #: 800-578-5625



1516 Interstate Drive  
Erlanger, KY 41018  
800 #: 800-659-5625  
See Ad On Page 135

### Commonwealth Lock Co.

1853 Massachusetts Ave.  
Cambridge, MA 02140  
800 #: 800-442-7009  
617-876-3300, Fax #: 617-661-3168  
E-Mail : [commonwealth.lock@verizon.net](mailto:commonwealth.lock@verizon.net)  
Web : [www.commonwealthlock.com](http://www.commonwealthlock.com)  
Product Categories : B D E F G H

### Craftmaster Hardware Co., Inc.

134 Liberty St.  
Hackensack, NJ 07601  
800 #: 800-221-3212  
201-646-9355, Fax #: 201-646-0181  
E-Mail : [info@craftmaster.net](mailto:info@craftmaster.net)  
Web : [www.craftmaster.net](http://www.craftmaster.net)  
Product Categories : B C D E F G H



### Curtis Locksmith Division

1301 E. 9th St.  
Cleveland, OH 44114  
800 #: 800-555-5397  
216-416-7200, Fax #: 800-867-6020  
E-Mail : [kathy.previte@bd-bgi.com](mailto:kathy.previte@bd-bgi.com)  
Web : [www.curtisindustries.com](http://www.curtisindustries.com)  
Product Categories : G

### Direct Security Supply, Inc.

36 Lincoln St.  
Boston, MA 02135  
800 #: 800-252-5757  
617-787-5200, Fax #: 800-452-8600  
Product Categories : B C D E F H

### Door Closer Service Co., Inc.

3730 10th street NE  
Washington, DC 20017  
800 #: 800-566-0606  
202-526-0505, Fax #: 202-529-7826  
Web : [www.doorcloser.com](http://www.doorcloser.com)  
Product Categories : B E  
See Ad On Page 55

### Dugmore and Duncan

30 Pond Park Rd.  
Hingham, MA 02043  
800 #: 888-384-6673  
781-740-1101, Fax #: 888-329-3846  
E-Mail : [sales@dugmore.com](mailto:sales@dugmore.com)  
Web : [www.dugmore.com](http://www.dugmore.com)  
Product Categories : B E F G  
See Ad On Page 105



### Fortress Safe & Lock

336 Northland Blvd.  
Cincinnati, OH 45246  
800 #: 800-562-0295  
513-772-4392, Fax #: 513-326-5983  
Product Categories : B E F G

### Fradon Lock Co., Inc.

467 Burnet Ave.  
Syracuse, NY 13203  
800 #: 800-447-0591  
315-472-6988, Fax #: 315-472-0958  
E-Mail : [fradonlock@aol.com](mailto:fradonlock@aol.com)  
Product Categories : B C E F G H

### Garden State Hardware Wholesalers

322 W. Front St.  
Plainfield, NJ 07060  
800 #: 800-544-0616  
908-753-1343, Fax #: 908-753-2040  
Product Categories : A B C D E F G H

#### PRODUCT CATEGORY KEY

- A — Alarms
- B — Architectural Hardware
- C — Training Manuals & Materials
- D — Locksmith Software
- E — Electronic Security Products
- F — Locking Products
- G — Locksmith Tools & Equipment
- H — Safes & Safe Products



### IDN-Armstrong's, Inc.

1333 Unit B Azalea Garden Rd.  
 Norfolk, VA  
 757-853-0611,  
 Fax #: 757-853-1832  
*See Ad On Page 27*



### IDN-Hardware Sales, Inc.

520 Broadway  
 McKees Rock, PA  
 412-771-6122, Fax #: 412-771-6350



7711 Brookpark Rd.  
 Parma, OH  
 216-335-9740, Fax #: 216-335-9745

3230 Union Road  
 Buffalo, NY 14227  
 716-683-1935, Fax #: 716-683-2464

390 Ledyard Street  
 Hartford, CT  
 860-296-7886, Fax #: 860-296-9201

6295 E. Molloy Road  
 East Syracuse, NY  
 315-432-8450, Fax #: 315-432-8474  
*See Ad On Page 27*

### IDN-H. Hoffman, Inc.

5513 Fair Lane Dr.  
 Cincinnati, OH  
 513-271-8530, Fax #: 513-271-8567  
*See Ad On Page 27*



### IDN-M. Taylor, Inc.

5635-45 Tulip Street



Philadelphia, PA 19124  
 215-288-5588, Fax #: 215-288-2511  
 Product Categories: A B C D E F G H  
*See Ad On Page 27*

### J. Nathan Hardware Specialties, Inc.

P.O. Box 18159  
 Rochester, NY 14618-0159  
 800 #: 800-634-2580  
 716-325-3330, Fax #: 716-325-7196  
 Web : www.jnathan.com  
 Product Categories : B C D E F

Victor, NY  
 716-325-3330  
*See Ad On Page 111*

### Keys Wholesale Distributors, Inc.

P.O. Box 498  
 Drexel Hill, PA 19026  
 800 #: 800-292-5397  
 610-626-4787, Fax #: 610-626-4189  
 Product Categories : B C F G

### Lockmasters, Inc.

5085 Danville Rd.  
 Nicholasville, KY 40356  
 800 #: 800-654-0637  
 859-885-6041, Fax #: 859-885-7093  
 E-Mail : diannealaine@lockmasters.com  
 Web : www.lockmasters.com  
 Product Categories : C E F G H  
*See Ad On Page 39*

### Mayflower Sales Co., Inc.

614 Bergen St.  
 Brooklyn, NY 11238  
 800 #: 800-221-2052



718-622-8785, Fax #: 718-789-8346  
 E-Mail : pilgrim@mfsales.com  
 Web : www.mfsales.com  
 Product Categories : B C D E F G H  
*See Ad On Page 7*

### Maziuk Wholesale Distributors

1251 W. Genesee St.  
 Syracuse, NY 13204  
 800 #: 800-777-5945  
 315-474-3959, Fax #: 315-472-3111  
 E-Mail : sales@mzkworld.com  
 Web : www.mzkworld.com  
 Product Categories : A B C D E F G H  
 Group : Plus Distribution Group



Buffalo, NY  
 800 #: 888-777-6981  
 Fax #: 716-684-5192

### MBA USA, Inc.

101 Edgewood Plaza Dr.  
 Nicholasville, KY 40356-1814  
 800 #: 888-622-5495  
 859-887-0496, Fax #: 859-887-9491  
 E-Mail : mbatools@aol.com  
 Web : www.mbausa.com  
 Product Categories : C G H  
*See Ad On Page 16*

#### PRODUCT CATEGORY KEY

- A — Alarms
- B — Architectural Hardware
- C — Training Manuals & Materials
- D — Locksmith Software
- E — Electronic Security Products
- F — Locking Products
- G — Locksmith Tools & Equipment
- H — Safes & Safe Products



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 and part  
 known to  
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 through  
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### **Northeast Lock Corp.**

48 Oak St.  
 Clifton, NJ 07014  
 800 #: 800-524-2575  
 201-777-7509, Fax #: 800-524-2576  
 Product Categories: F  
*See Ad On Page 126*

### **Ohio Travel Bag Mfg., Co.**

6481 Davis Industrial Pkwy.  
 Solon, OH 44139-3547  
 800 #: 800-800-1941  
 440-498-1955, Fax #: 440-498-9811  
 E-Mail: info@ohiotravelbag.com  
 Web: www.ohiotravelbag.com  
 Product Categories: F

### **Orchard Lock Distributors, Inc.**

30 Edmond St.  
 Hamden, CT 06517  
 800 #: 800-233-2146  
 203-865-8106, Fax #: 203-624-4083  
 Product Categories: B C F G H

### **Pasek Corp.**

9 W. Third St.  
 South Boston, MA 02127  
 800 #: 800-628-2822  
 617-269-7110, Fax #: 617-269-0547  
 E-Mail: pasek@pasek.cm  
 Product Categories: A B D E F G

### **Richmond Industrial Supplies**

7233 Amboy Rd.  
 Staten Island, NY 10307  
 800 #: 800-462-9997  
 718-317-6335, Fax #: 800-610-6670  
 Product Categories: B

### **Safemasters Company, Inc.**

Industrial Sales  
 5655 General Washington Drive  
 Alexandria, VA 22312  
 800 #: 800-633-9977  
 703-256-6402, Fax #: 703-750-1814  
 E-Mail: ind@safemasters.com  
 Web: www.safemasters.com  
 Product Categories: A B C D E F H

### **SM Services Nationwide Service**

301 Callowhill Street  
 Philadelphia, PA 19123-4182  
 800 #: 888-768-7387  
 Fax #: 888-762-2987

### **Corporate Office**

2700 Garfield Ave. Ste. 200  
 Silver Spring, MD 20910  
 301-608-9000, Fax #: 800-233-2454

5655 General Washinton Drive  
 Alexandria, VA 22312-2403  
 703-354-8700, Fax #: 703-354-1022

3918 Vero Road Ste. C  
 Baltimore, MD 21227-1516  
 410-247-3100, Fax #: 410-247-3033

100 Clements Bridge Rd.  
 Barrington, NJ 05007-1804  
 856-547-4706, Fax #: 856-547-7308

32 Province St.  
 Boston, MA 02108-5120  
 617-423-4846, Fax #: 617-350-7558

1517 Technology Dr. Ste. 104  
 Chesapeake, VA 23320-5974  
 757-548-7099, Fax #: 757-549-2351

P.O. Box 255, 1462 Main St.  
 Dover/Woodside, DE 19980-0258  
 302-697-9140, Fax #: 302-489-5303

19 East Main St.

Little Falls, NJ 07424-1612  
 973-890-9797, Fax #: 973-890-7676

678 Salem St.  
 Maiden, MA 02148-4363  
 781-324-8000, Fax #: 781-321-8603

301 Callowhill St.  
 Philadelphia, PA 19123-4182  
 215-413-2920, Fax #: 215-413-2712

2015 Babcock Blvd.  
 Pittsburgh, PA 15209-1305  
 412-821-5166, Fax #: 412-821-5186

2700 Garfield Ave. Ste. 200  
 Silver Spring, MD 20910-1813  
 301-565-2100, Fax #: 301-495-7810

Independence Mall, #15  
 1601 Concord Pike  
 Wilmington, DE 19803  
 302-777-5925, Fax #: 302-777-5928

### **Secure Industries, Inc.**

9 Kuhl Ave.  
 Hicksville, NY 11801  
 800 #: 800-999-2534  
 516-433-0033, Fax #: 516-433-8804  
 E-Mail: industried@mindspring.com  
 Web: www.secureindustry.com  
 Product Categories: B F G

### **Security Lock Distributors**

25 Dartmouth Street  
 Westwood, MA 02090  
 800 #: 800-847-5625  
 781-251-7100, Fax #: 800-878-6400  
 E-Mail: info@seclock.com  
 Web: www.seclock.com  
 Product Categories: B E F G  
*See Ad On Page 127*



### **Septon, Inc.**

P.O. Box 9  
 Malden-On-Hudson, NY 12453  
 800 #: 800-537-8752  
 914-246-0638, Fax #: 914-246-3416  
 Product Categories: B C F G

### **Stone & Berg Wholesale Locksmith Supply**

99 Stafford St.  
 Worcester, MA 01603  
 800 #: 800-225-7405  
 508-753-3551, Fax #: 508-753-5066  
 Web: www.stoneandberg.com  
 Product Categories: B C D E F G H  
*See Ad On Page 113*



### **Top Notch Distributors**

80 Fourth Street  
 Honesdale, PA 18431  
 800 #: 800-233-4210  
 717-253-5625, Fax #: 800-854-4146  
 E-Mail: topnotch@ptd.net  
 Web: www.4topnotch.com  
 Product Categories: B F

### **Turn 10 Wholesale Service**

P.O. Box 746  
 Marietta, OH 45750  
 800 #: 800-848-9790  
 740-374-5734, Fax #: 800-391-4553  
 E-Mail: turn10corp@msn.com  
 Product Categories: H  
 Philadelphia, PA

### **U.S. Lock Corp.**

77 Rodeo Dr.  
 Brentwood, NY 11717

800 #: 800-925-5000  
 631-243-3000, Fax #: 800-338-5625  
 E-Mail: uslockfgv@aol.com  
 Web: www.us-lock.com  
 Product Categories: A B C D E F G H  
 Jeffersontown, KY  
 800 #: 888-222-0155

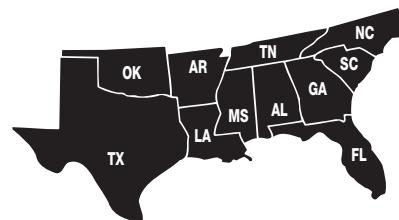
### **Westguard, Inc.**

P.O. Box 616  
 Twinsburg, OH 44087  
 800 #: 888-699-9378  
 330-963-6116, Fax #: 330-425-1834  
 E-Mail: westguard@westguard-inc.com  
 Web: www.westguard-inc.com  
 Product Categories: A E F

### **Zipf Lock Co.**

P.O. Box 935  
 Columbus, OH 43216  
 800 #: 800-848-1577  
 614-228-3507, Fax #: 614-228-6320  
 E-Mail: zipflockco@aol.com  
 Web: www.zipflockco.com  
 Product Categories: B C D E F G  
*See Ad On Page 121*

### **Region 2: South**



### **Blue Dog Key Company**

P.O. Box 160006  
 Altamonte Springs, FL 32716  
 800 #: 888-633-2526  
 Fax #: 407-774-6054  
 E-Mail: oddblanks@aol.com

### **Clark Security Products**

501 Garden Oaks Blvd.  
 Houston, TX 77018  
 800 #: 800-483-5625



7576 Kingspointe Parkway  
 Orlando, FL 32819  
 800 #: 800-669-5626  
*See Ad On Page 135*

### **Dugmore and Duncan**

Lakeland, FL  
 800 #: 888-384-6673

Austin, TX  
 800 #: 888-384-6673  
*See Ad On Page 105*

### **H. L. Flake Co.**

5005 Gulf Freeway  
 Houston, TX 77023  
 800 #: 800-231-4105



#### **PRODUCT CATEGORY KEY**

- A — Alarms
- B — Architectural Hardware
- C — Training Manuals & Materials
- D — Locksmith Software
- E — Electronic Security Products
- F — Locking Products
- G — Locksmith Tools & Equipment
- H — Safes & Safe Products



713-926-3200, Fax #: 713-926-3399  
 E-Mail : danf@hlflake.com  
 Web : www.angelfire.com/biz/gilraytoolsinc/  
 Product Categories : B C D E F G H  
*See Ad On Page 120*

#### **Howard Keys**

1610 Industrial Center Circle  
 Charlotte, NC 28213-6397  
 800 #: 800-524-9199  
 704-509-4944, Fax #: 704-509-6248  
 E-Mail : howardkeys@aol.com  
 Web : www.howardkeys.com  
 Product Categories : G

#### **IDN, Inc.**

2401 Mustang Dr., Ste. 100  
 Grapevine, TX 76051  
 817-421-5470,  
 Fax #: 817-421-5468  
 Web : www.idn-inc.com  
*See Ad On Page 27*



#### **IDN-Acme, Inc.**

P.O. Drawer 13748  
 New Orleans, LA 70185  
 504-837-7315, Fax #: 504-837-7321  
 Product Categories: A B C D E F G H



1308-A N. First Street  
 Bellaire, TX  
 713-668-0022, Fax #: 713-668-8050

12919 Delivery Dr.  
 San Antonio, TX  
 210-545-3396, Fax #: 210-545-2198

7555 Pebble Dr.  
 Ft. Worth, TX  
 817-284-5696, Fax #: 817-284-3501

4100 Will Rogers #500  
 Oklahoma City, OK  
 405-942-8750, Fax #: 405-942-0523

860 N. Dorothy Ste. 612  
 Richardson, TX  
 972-664-1240, Fax #: 972-664-1252  
*See Ad On Page 27*

#### **IDN-Armstrong's, Inc.**

3589 Broad Street  
 Chamblee, GA 30341  
 404-875-0136,  
 Fax #: 404-888-0834  
 Product Categories: A B C D E F G H



860 N. Dorothy Ste. 612  
 N. Miami Beach, FL  
 305-651-1598 Fax #: 305-652-1709

Suite 8406 H Benjamin Road  
 Tampa, FL  
 813-886-8007, Fax #: 813-886-5696

400 S. Edgewood  
 Jacksonville, FL  
 904-387-0663, Fax #: 904-387-4568

1932 Bregle Avenue  
 Orlando, FL  
 407-297-7722, Fax #: 407-297-9522  
*See Ad On Page 27*

#### **JLM Wholesale, Inc.**

Charlotte, NC  
 800 #: 800-768-6050  
*See Ad On Page 121*



**MasterLink Security Products**  
 3863 NW 19th St.

Lauderdale Lakes, FL 33311-4123  
 954-581-2002, Fax #: 954-486-0575  
 E-Mail : masterlink@mindspring.com

#### **McDonald Dash Locksmith Supply, Inc.**

P.O. Box 752506  
 Memphis, TN 38175-2506  
 800 #: 800-238-7541  
 901-797-8000, Fax #: 901-366-0005  
 E-Mail : dashsales@mcdonalddash.com  
 Web : www.mcdonalddash.com  
 Product Categories : A B C D E F G H  
 Group : Plus Distribution Group  
*See Ad On Page 52*

#### **McManus Locksmith Supply, Inc.**

P.O. Box 9321  
 Charlotte, NC 28299  
 800 #: NC 800-432-6342 SC 800-438-6567  
 704-333-9112, Fax #: 704-332-8664  
 E-Mail : mclock@bellsouth.net  
 Product Categories : B D F G H C

#### **Midwest Wholesale Hardware**



Longwood, FL  
 800 #: 800-659-8527  
*See Ad On Page 31*

#### **RA-Lock Company**

P.O. Box 549  
 Cedar Hill, TX 75106  
 800 #: 800-777-6310  
 972-775-6301, Fax #: 972-775-6316  
 E-Mail : ralock@rlindustries.com  
 Web : www.rlindustries.com  
 Product Categories : F

#### **S.D.I. (Security Distributors, Inc.)**

8901 Chancellor Row  
 Dallas, TX 75247  
 214-879-1563, Fax #: 214-879-1525  
 Product Categories : B E F G H  
*See Ad On Page 65*

#### **Security Lock Distributors**

Pompano Beach, FL  
 800 #: 800-562-5720  
 Fax #: 800-246-9115  
*See Ad On Page 127*



#### **Silver Sales, Inc.**

Plano, TX 75075  
 800 #: 800-258-5625  
 Fax #: 866-702-5475  
 E-Mail : mail@silversalesusa.com  
 Web : www.silversalesusa.com  
 Product Categories : E H

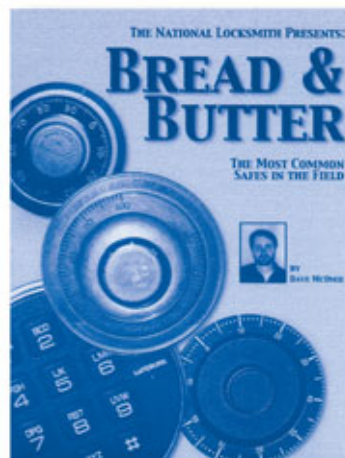


Ft. Myers, FL  
 800 #: 800-258-5625

#### **PRODUCT CATEGORY KEY**

- A — Alarms
- B — Architectural Hardware
- C — Training Manuals & Materials
- D — Locksmith Software
- E — Electronic Security Products
- F — Locking Products
- G — Locksmith Tools & Equipment
- H — Safes & Safe Products

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#BB - 01



## Southern Lock & Supply

P.O. Box 1980  
 Pinellas Park, FL 33780-1980  
 800 #: 800-282-2837  
 727-541-5536,  
 Fax #: 800-447-2299  
 E-Mail : sales@southernlock.com  
 Web : www.southernlock.com  
 Product Categories : A B C D E F G



Pompano Beach, FL  
 800 #: 888-517-9145

Charlotte, NC  
 800 #: 888-517-9145

Atlanta, GA  
 877-217-9396  
 See Ad On Page 85

## U.S. Lock Corp.

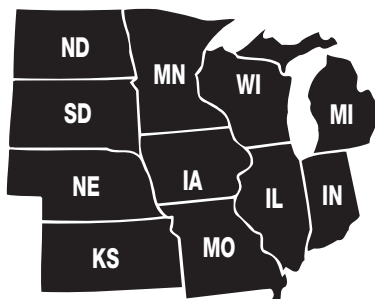
Jacksonville, FL  
 904-783-3232



Charlotte, NC  
 704-334-0333

Dallas, TX  
 214-351-3747

## Region 3: Midwest



## All Secure & Safe Service

5530 W. 110th Street  
 Oak Lawn, IL. 60453  
 708-423-2303, Fax #: 708-423-1905

## Clark Security Products

830 Sivert Drive  
 Wood Dale, IL 60191  
 800 #: 800-755-5625  
 See Ad On Page 135



## Door Hardware Distributors, Inc.

318 North Milwaukee St.  
 Milwaukee, WI 53202  
 800 #: 800-829-8905  
 414-291-5687, Fax #: 414-291-5685  
 E-Mail : info@doorhardware.net  
 Web : www.doorhardware.net  
 Product Categories : B G F

## Dugmore and Duncan

Lombard, IL  
 888-384-6673  
 See Ad On Page 105



## E.L. Reinhardt Company

3250 Fanum Rd.  
 Vadnais Heights,  
 MN 55110-5219  
 800 #: 800-328-1311  
 651-481-0566, Fax #: 651-481-0166  
 E-Mail : reinhardt@plsgroup.com



Web : www.plsgroup.com  
 Product Categories : A B C D E F G H  
 Group : Plus Distribution Group

## Ewert Wholesale Hardware, Inc.

5801 West 117th Place  
 Alsip, IL 60803  
 800 #: 800-451-0200  
 708-597-0059, Fax #: 708-597-0881  
 Product Categories : B C D E F G H  
 See Ad On Page 45

## Gil-Ray Tools, Inc.

P.O. Box 801  
 Bay City, MI 48707  
 989-892-6870, Fax #: 989-892-6870  
 E-Mail : djdeuel@bigfoot.com  
 Web : www.angelfire.com/biz/gilraytoolsinc/  
 Product Categories : C G  
 See Ad On Page 107

## IDN-Hardware Sales, Inc.

35950 Industrial Road  
 Livonia, MI 48150  
 734-591-1150,  
 Fax #: 734-591-3981  
 Product Categories: A B C D E F G H



3699 E. 10 Mile Road  
 Detroit, MI  
 810-755-3658, Fax #: 810-755-5145  
 See Ad On Page 27

## IDN-H. Hoffman, Inc.

7330 W. Montrose Ave.  
 Norridge, IL 60706  
 708-456-9600,  
 Fax #: 708-456-0878  
 Product Categories: A B C D E F G H

955 North Pennsylvania  
 Indianapolis, IN  
 317-635-8100, Fax #: 317-637-2358

1235 Research Blvd.  
 Creve Coeur, MO 63132  
 314-692-8391, Fax #: 314-692-8395



900 47th ST S. Ste. C  
 Grand Rapids, MI  
 616-534-1067, Fax #: 616-534-1904

12525A West Custer Ave.  
 Butler, WI  
 262-790-9750, Fax #: 262-790-9754

11652 West 90th Street  
 Overland Park, KS  
 913-599-4111, Fax #: 913-599-4160

5117 - B Tremont Avenue  
 Davenport, IA  
 319-391-8366, Fax #: 319-391-7949

4217 South 87th Street  
 Omaha, NE  
 402-592-1652, Fax #: 402-592-9604

8894 Wentworth Ave. South  
 Bloomington, MN  
 612-886-3840, Fax #: 612-886-3841  
 See Ad On Page 27

## JLM Wholesale, Inc.

3095 Mullins Ct.  
 Oxford, MI 48371  
 800 #: 800-522-2940  
 248-628-6440, Fax #: 248-628-6733



E-Mail : randyh@jlmwholesale.com  
 Web : www.jlmwholesale.com  
 Product Categories : B E  
 See Ad On Page 121

## Key Sales & Supply Co.

9950 Freeland Ave.  
 Detroit, MI 48227  
 800 #: 800-445-KEYS  
 313-931-7720, Fax #: 313-931-7758  
 Product Categories : A B C D E F G H  
 See Ad On Page 51

## Midwest Wholesale Hardware

P.O. Box 34221  
 Kansas City, MO 64120  
 800 #: 800-821-8527  
 816-241-5663, Fax #: 816-241-0183  
 E-Mail : dianne@midwestwholesale.com  
 Product Categories : B E F  
 See Ad On Page 31

## Omaha Wholesale Hardware

P.O. Box 3628  
 Omaha, NE 68103  
 800 #: 800-238-4566  
 402-444-1650, Fax #: 402-444-1663  
 Product Categories : A B C D E F G  
 See Ad On Page 81

## PLS Distribution Group

3250 Fanum Rd.  
 Vadnais Heights, MN 55110  
 612-481-0566

## Safemasters Company, Inc.

168 E. Toughy Court  
 Des Plaines, IL 60618-1852  
 847-299-3420, Fax #: 847-299-4039

9067 Crawfordsville Rd.  
 Indianapolis, IN 46234-1517  
 317-328-9683, Fax #: 317-328-2682

## Sentry Security Fasteners, Inc.

P.O. Box 10165  
 Peoria, IL 61612  
 309-693-2800, Fax #: 309-693-2872  
 Product Categories : F G

## Top Notch Distributors

St. Louis, MO  
 800 #: 800-211-4607  
 Fax #: 800-211-4608

## Region 4: West

## Access Hardware Supply

14359 Catalina St.  
 San Leandro, CA 94577  
 800 #: 800-348-2263  
 510-483-5000, Fax #: 800-435-8233  
 E-Mail : jream@locks.com  
 Web : www.accesshardware.com  
 Product Categories : A B E F



## PRODUCT CATEGORY KEY

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- E — Electronic Security Products
- F — Locking Products
- G — Locksmith Tools & Equipment
- H — Safes & Safe Products





### Akron Hardware Consultants

Gilbert, AZ  
 800 #: 800-457-9378  
 Fax #: 800-457-8773  
*See Ad On Page 104*



### Clark Security Products

7520 Mission Valley Rd.  
 San Diego, CA 92108-4400  
 800 #: 800-542-5625

1210 N. Kraemer Blvd.  
 Anaheim, CA 92806-1920  
 800 #: 800-889-5625

6260 N. Washington St. #25  
 Denver, CO 80216-1112  
 800 #: 800-282-5625

211 S. 28th Street  
 Phoenix, AZ 85034  
 800 #: 800-775-5625

3701 Seaport Blvd.  
 W. Sacramento, CA 95691  
 800 #: 800-245-3003

135 West 2950 South  
 Salt Lake City, UT 84115  
 800 #: 800-453-6430

6405 South 194th St.  
 Kent, WA 98032  
 800 #: 800-942-5275  
*See Ad On Page 135*

### DiMark International, Inc.

3117 Liberator - Unit A  
 Santa Maria, CA 93455  
 800 #: 800-235-2435  
 805-922-1182, Fax #: 805-928-8034  
 Web : www.dimarkinternational.com  
 Product Categories : C D F G  
*See Ad On Page 83*

### Dugmore and Duncan

Corona, CA  
 888-384-6673  
*See Ad On Page 105*



### IDN-Acme, Inc.

2436 Menaul Blvd. NE  
 Albuquerque, NM  
 505-816-0100, Fax #: 505-816-0111



2496 West 2nd Ave. Unit #4  
 Denver, CO  
 303-922-3041, Fax #: 303-922-7493  
*See Ad On Page 27*

### IDN-West

2602 N. 37th Drive  
 Phoenix, AZ 85009  
 602-272-5300, Fax #: 602-272-5777  
 Product Categories: A B C D E F G H



3717 B San Gabriel River Pkwy  
 Pico Rivera, CA  
 562-463-4870, Fax #: 562-463-5570

4665 South Procyon, Ste C  
 Las Vegas, NV  
 702-736-4553, Fax #: 702-736-4579  
*See Ad On Page 27*

### Intermountain Lock & Supply, Inc.

300 Bryant St.  
 Denver, CO 80223  
 800 #: 800-323-8046  
 303-698-1898, Fax #: 303-698-2094  
 Product Categories : A B C D E F G H



Salt Lake City, UT  
 800 #: 800-453-5386  
 Fax #: 801-485-7205

Las Vegas, NV  
 866-809-5625, Fax #: 720-939-5626

### Jensen Tools

7815 S. 46th St.  
 Phoenix, AZ 85044-5399  
 800 #: 800-426-1194  
 602-453-3169, Fax #: 602-438-1690  
 E-Mail : jensen@stanleyworks.com  
 Web : www.jensentools.com  
 Product Categories : G

### LDM Enterprises, Inc.

31255 Cedarvalley Dr. Suite 200  
 Westlake Village, CA 91362  
 800 #: 800-451-5950  
 Fax #: 818-706-8560  
 E-Mail : ldment@pacebell.net

# The Best of Dale Libby

## The National Locksmith.

### The Best Of Dale Libby



This book contains a specially selected collection of new and reprinted articles from author and safecracker, Dale Libby. Topics include: Safe opening, service, and tools; Car opening; Alarms; Locks; and Much More!

These are the articles that started the safe opening revolution.

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#DALE

Web : [www.ldment.com](http://www.ldment.com)  
 Product Categories : C D F G

## Midwest Wholesale Hardware

Visalia, CA  
 888-707-8527  
 See Ad On Page 31

## Northwest Lock & Supply Co.

P.O. Box 1384  
 Albany, OR 97321  
 800 #: 800-359-9425  
 541-967-2749, Fax #: 541-928-9338  
 Product Categories : B E F G H

## R.B. Enterprises

30950 Corral Dr. Suite B  
 Coarsegold, CA 93614  
 559-642-2710, Fax #: 559-642-2699  
 E-Mail : [rbe@sierratel.com](mailto:rbe@sierratel.com)  
 Web : [www.retailsecurityproducts.com](http://www.retailsecurityproducts.com)

## Security Plus, Inc.

3612 N. 16th St.  
 Phoenix, AZ 85016  
 800 #: 800-426-0200  
 602-234-3883, Fax #: 602-234-3882  
 Product Categories : B C D E F G H

## Silver Sales, Inc.

San Diego, CA  
 800 #: 800-258-5625

## Top Notch Distributors

Carson City, NV  
 800-722-4210, Fax #: 800-248-3620

## U.S. Lock Corp.

Ontario, CA  
 800 #: 800-321-6905

## Wilco Supply

P.O. Box 3047  
 Oakland, CA 94609-1597  
 800 #: 800-745-5450  
 510-652-8522, Fax #: 800-876-5397  
 E-Mail : [info@wilcosupply.com](mailto:info@wilcosupply.com)  
 Web : [www.wilcosupply.com](http://www.wilcosupply.com)  
 Product Categories : A B C D E F G H

## Region 5: Canada

### Agences W. Pelletier (1980) Inc.

440 Beaumont  
 Montreal, Quebec  
 Canada, H3N 1T7  
 800 #: 800-363-6700  
 514-276-6700, Fax #: 514-276-9413

E-Mail : [sales@apa-pelletier.com](mailto:sales@apa-pelletier.com)

Web : [www.apa-pelletier.com](http://www.apa-pelletier.com)

Product Categories : A B C D E F G H

### Agences R. Cantin, Inc.

Quebec, Canada  
 418-681-7522,  
 Fax #: 418-681-4010

### P.Coudriau & Sons

Ottawa, ON Canada  
 613-741-7900, Fax #: 613-741-7907

### Associated Lock & Supply

2526 Davies Ave.  
 Port Coquitlam, BC  
 Canada, V3C 4T7  
 800 #: 800-668-7161



604-942-5625, Fax #: 604-942-3761  
 Product Categories : D E F G H

## Dom Lock / DL Services

245 A King Street West  
 Cambridge, ON  
 Canada, N3H 1B8  
 800 #: 877-326-5625  
 519-653-2538, Fax #: 519-653-9539  
 E-Mail : [jimcushing@domsecurity.com](mailto:jimcushing@domsecurity.com)  
 Web : [www.domsecurity.com](http://www.domsecurity.com)  
 Product Categories : B F

## Hardware Agencies, Ltd.

1220 Dundas St. East  
 Toronto, ON  
 Canada, M4M 1S3  
 800 #: 800-268-6741  
 416-462-1919, Fax #: 416-462-1922  
 E-Mail : [sales@hardwareagencies.com](mailto:sales@hardwareagencies.com)  
 Product Categories : A B C D E F G H

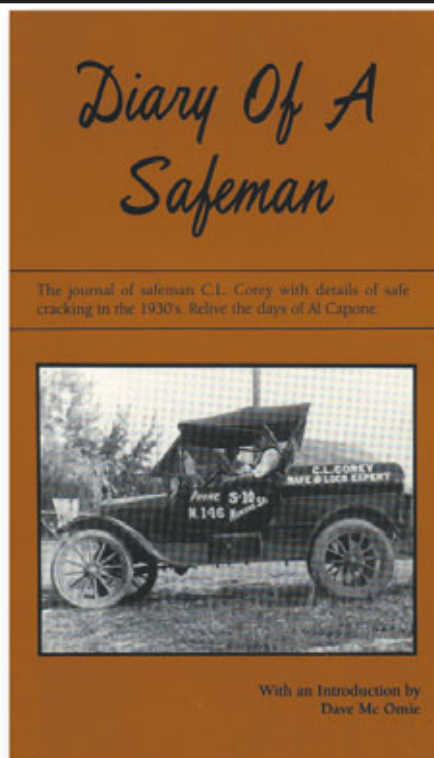
## IDN-Canada, Ltd.

70 Floral Parkway  
 Toronto, ON  
 Canada, M6L 2C1  
 416-248-5625, Fax #: 416-248-9945  
 Product Categories : A B C D E F G H

1250 Old Innes Rd. Unit #508  
 Ottawa, ON  
 Canada, K1V 5L3  
 613-749-2172, Fax #: 613-749-6651

#15 2010 30th Ave. NE  
 Calgary, Alberta  
 Canada, T2E 7K9  
 403-291-4844, Fax #: 403-291-4893

9681 45th Ave.



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#DIARY



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Canada, T6E 5Z8  
780-944-0014, Fax # : 780-944-0929

1600 Beaulac  
Ville St. Laurent, Quebec  
Canada, H4R 1W8  
514-956-0248

2172 Douglas Road Burnaby  
British Columbia  
Canada, V5C 5A7

100 Wright Avenue, Unit #23  
Dartmouth, Nova Scotia  
Canada, B3B 1L2  
902-468-1373, Fax # : 902-468-2117  
See Ad On Page XX

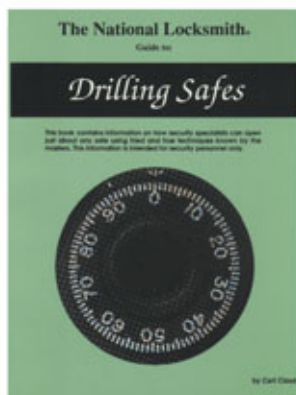
**Jo-Van Distributors, Inc.**  
929 Warden Ave.  
Scarborough, ON  
Canada, M1L 4C5  
800 # : 888-752-7210  
416-752-7210, Fax # : 416-752-7282  
E Mail : info@jovanlock.com  
Web : www.jovanlock.com  
Product Categories : A B C D E F G H  
Group : Security Distributors Incorporated



**Security House  
Padlock Distributors**  
665 Millway Ave. Unit 48  
Concord, ON  
Canada, L4K 3T8  
800 # : 888-PADLOCKS "Canada wide"  
905-669-5300, Fax # : 905-660-6313  
Product Categories : B E F H G



## Drilling Safes

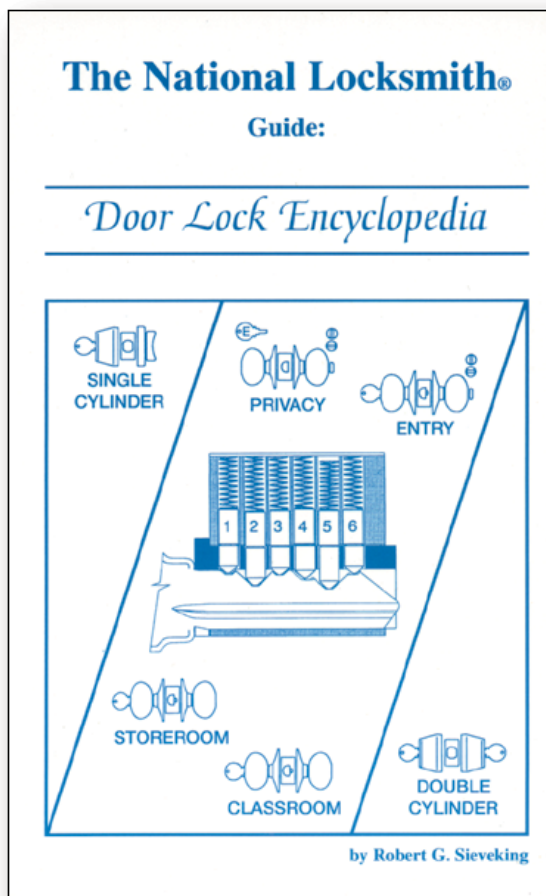


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#DS - 1

# Door Lock Encyclopedia



The ability to remove a lock from a door, disassemble the mechanism, and remove the lock cylinder for service is not always a simple straightforward task.

CLICK HERE TO LEARN MORE



#DLE



by  
**Sal Dulcamaro,**  
**CML**

In recent years, the number of different brand push button door locks has grown dramatically. While the competition is wide and fierce in the electronic sector, for many years there was only one serious player among the mechanical push button locks. While the Ilco/Unican push button locks were the mechanical standard for many years, I recall a mechanical combination door lock that appeared on the horizon for a few years and then disappeared. That lock line has recently reappeared in the American lock market, and one example can be seen in *photograph 1*. The name "DIGITAL" can be seen on the face of the lock, just above the push buttons. This particular unit is a deadbolt lock, but there are also latch locks and a few other variations

I have some relatively distinct memories from when I first saw that lock, but a few have been clouded a bit. I recalled that it was manufactured in Japan and was sold and distributed in the U.S. by a company somewhere out east. I remembered that it had to be disassembled to

change the combination, but I had a vague recollection of difficulty or complications when changing the combination. As I have recently learned (or relearned), the process of changing a combination is amazingly easy.

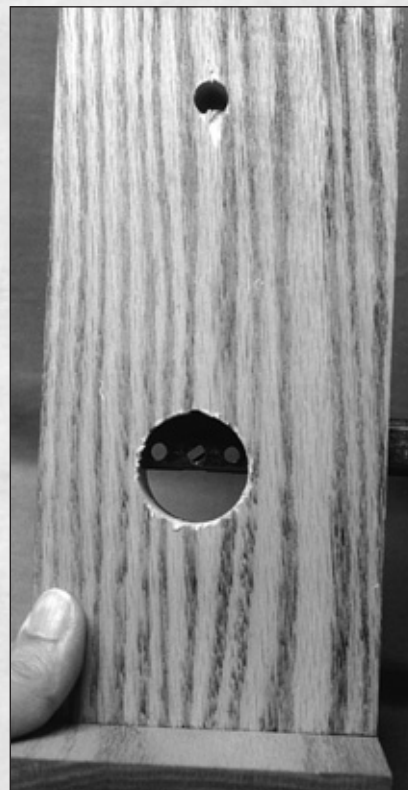
### INSTALLING THE DIGITAL DEADBOLT LOCK

*Photograph 2*, shows a lock mount with the holes already prepped. Only the latch bolt has already been installed. It is not an optical illusion. The cross-bore hole does not share the same centerline as the edge bore hole. While the backsets are standard (2-3/8" or 2-3/4"), the cross-bore hole size is unusual.

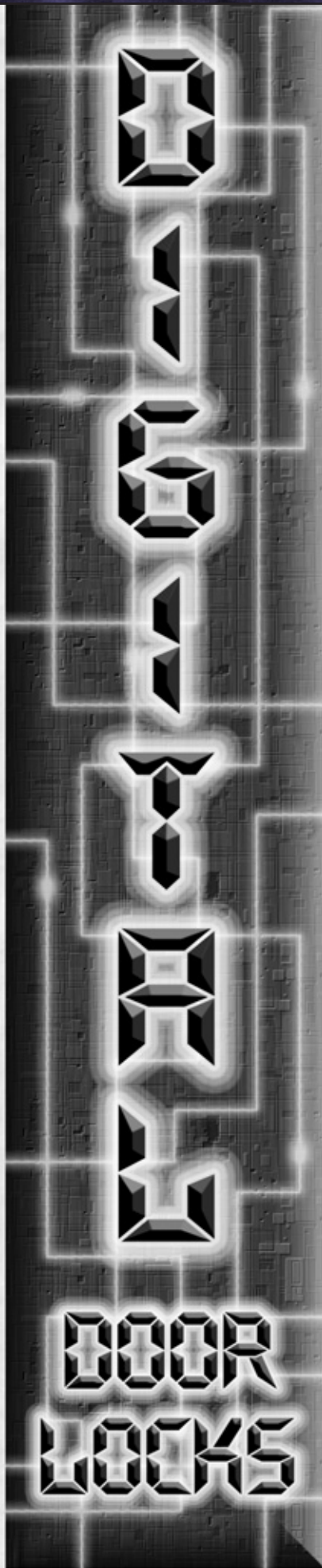
*Photograph 3*, shows the opposite side of the lock mount with an apparently different looking cross-bore hole. The elongated top half of this hole is not all the way through, and (as we will see later) has some flexibility as to the actual contours. The paper template is just to the left of the mounting holes. After looking over the template a few times, I can see that a number of dimensions are not clearly identified. The distances from some identified locations are printed as inches or metric dimensions, while others would have to be



1. A DIGITAL Door Lock.



2. A lock mount with holes already prepped.





measured or interpolated to determine them. I'm guessing that they expect that you just trace from the template rather than measuring all the dimensions. Because of the large footprint for the lock on the inside and outside faces of the door, there is a lot of room for error, with the lock concealing your goofs.

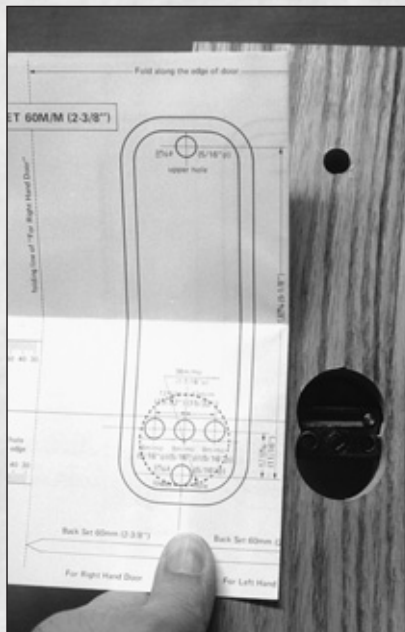
The small hole high up (5/16" diameter) on the lock mount is pretty much a given, but the lower (much larger) hole allows for a number of variations. The paper template shows four separate 5/16" holes within a larger 1-7/16" hole. You can either drill the four separate small holes for matching separate parts to protrude through the door, or you can make the larger hole that encompasses the entire area where any of the four holes would be located. The main difference is the existence of a lot more open space between the parts that go through the door.

I measured the width of the lock case, and you can't just drill a (standard size) 2-1/8" diameter cross-bore hole, because the lock case is not wide enough to completely conceal such a hole.

DIGITAL Door Lock does make a trim plate available to conceal a 2-18" hole that costs about \$8.00.

The reason for needing an elongated hole can be seen in *photograph 4*. When the deadbolt is

actuated, a part of the latch lifts higher than the circumference of the lower hole. I imagine that there are quite a few different ways to accomplish it, but you must allow clearance for that part or the bolt

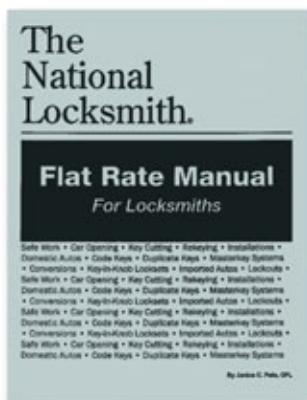


**3. The opposite side of the lock mount with a different looking cross-bore.**



**4. A part of the latch lifts higher than the circumference of the lower hole.**

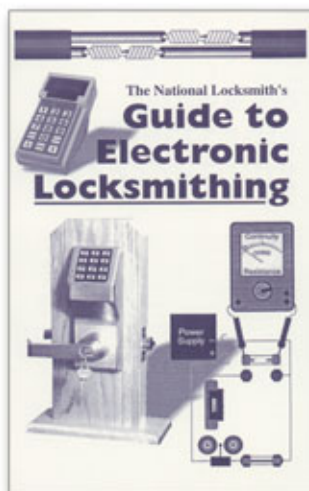
## Flat Rate Manual



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#FRM - 1

## Electronic Locksmithing

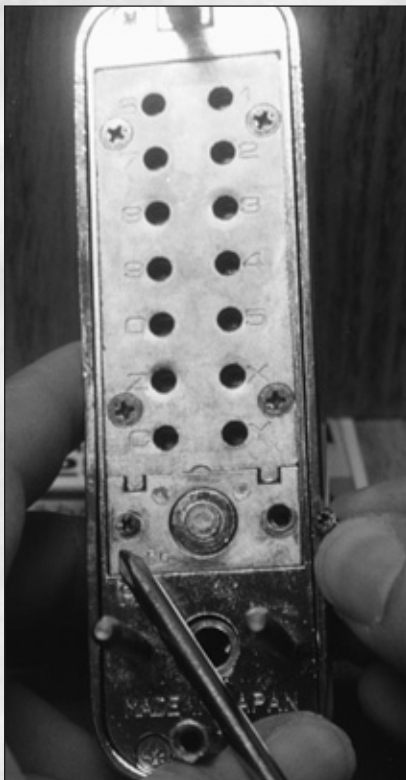


Everyone knows there's big money in selling, installing and servicing electronic security such as mag locks, electronic strikes, and simple access control.

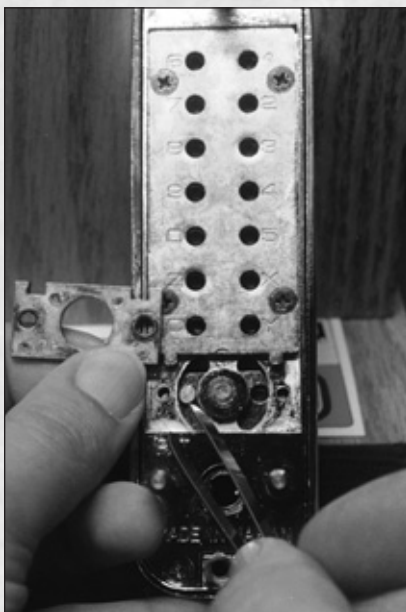
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cannot actuate. If the centerlines between the edge bore and cross-bore holes were closer to each other; the existence of the cross-bore hole may have dealt with that problem. However you decide to drill for the lock, make sure that there is free movement of the lock parts and that you don't turn the door into Swiss cheese (even though the mess may be concealed behind the lock).



5. Removing a screw that fastens a small rectangular plate.



6. After prying off the plate you can see a small post.

## LOCK HANDING

Like many brands of locks, the DIGITAL Door Locks are assembled right handed. For some types of locks, handing is easily changed, while others make the task much more difficult. Changing the hand of the lock is usually related to the proper orientation of the keyway for a keyed lock cylinder. Hand changing is more critical here because it affects which direction the outside knob can turn freely and which direction requires the combination to be entered first. If not set properly, anyone would be able to unlock the door, but only people who knew the combination could lock it. Let's just say that it would not be an ideal situation.



7. The outside lock case with parts for different door thickness'.



8. The spindle about to be inserted.

I didn't work on the latch type (or other versions) of DIGITAL Door Locks, so I don't know if there is any significant difference from what I would go through to convert the handing of a DIGITAL deadbolt lock. I don't know if maybe there might not be a few additional steps to account for the orientation of a lever handle. I did find hand changing for the DIGITAL Door Locks, at least for the deadbolt version, to be very simple and fast.

*Photograph 5*, shows a back side view of the outside lock body. Here I am removing the second screw (painted blue) that fastens a small rectangular plate. After prying off the plate seen in *photograph 6*, you can see a small post in the center with an inserted pin to its left and an empty hole to its right. This is the standard setting for a right-handed lock. If you wish to switch the lock to left hand, remove the pin (with the included tweezers) and switch it to the other side. Then reattach the rectangular cover plate and refasten the two blue screws.

## ASSEMBLING THE LOCK

With all the holes drilled and the correct handing set, it is time to assemble the lock onto the door. *Photograph 7*, shows the outside lock case with two different sets of parts for different door thickness ranges. There is a spindle (tailpiece) and a set of two screws for each of the door thickness packages. The longer set (to the left) is for a door thickness range of 1-37/64" to 2-11/64". The shorter set (to the right) is for doors ranging from 1-3/16" to 1 49/64" thick. The shorter package should work on residential doors in the more common range of 1-3/8" to 1-?". Although designed for thicker doors, the longer set includes the standard 1-?" door thickness within its usable range.

The correct length spindle is about to be inserted into its slot in *photograph 8*. If it was not already assembled, the rubber escutcheon is placed behind the outside lock body, as in *photograph 9*. The rubber surface should make the installation more weather resistant. Making sure that all the extending parts are positioned through their appropriate holes or slots, the outside lock body is attached in *photograph 10*.

The inside lock body also uses a rubber escutcheon, as shown in

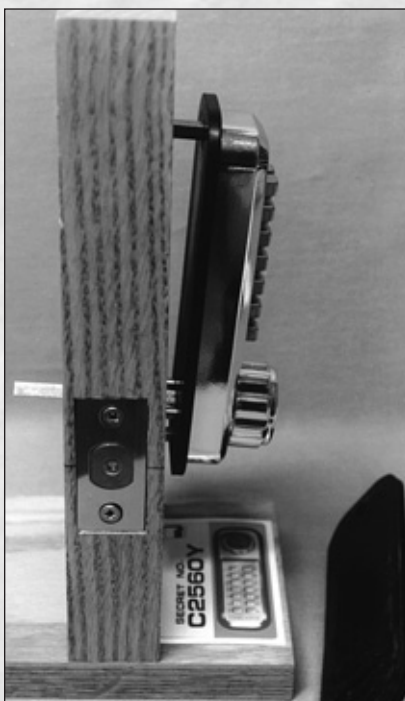




9. The rubber escutcheon is placed behind the outside lock body.



11. The inside lock body also uses a rubber escutcheon.



10. The outside lock body is attached.



12. The two attaching screws are inserted.

*photograph 11.* When attaching the inside body, make sure the spindle fits into the spindle hole of the inside thumb turn. While it is held in place, in *photograph 12*, the two attaching screws are inserted. Make sure that the screws match the spindle (and door thickness) that is properly designated. After tightening the screws in *photograph 13*, make sure that the inside thumb-turn works properly and that the bolt actuates smoothly. Loosen and adjust the screws if necessary.

### LOCK OPERATION

The lock in *photograph 14* is right handed. If the lock has been properly handed, turning the knob counterclockwise should extend the bolt. No combination should have to be entered to lock the deadbolt. Unlocking is a different story. With the bolt extended (locked) in *photograph 15*, the outside knob can not unlock the bolt until the correct combination is entered on the keypad. If you look at the base of the lock mount, you will see the "Secret No." (or combination): C2560Y. It appears that the lock uses a six digit (alpha/numeric) code. Actually, the "C" is the Clear button. Pressing it before you enter the correct combination will clear any buttons previously pushed. The actual user code is: 2560Y. After the proper code is entered, the outside knob is turned clockwise in *photograph 16*, which retracts the bolt.

### HOW TO CHANGE THE CODE

Changing the code will involve partial disassembly of the lock. If the lock were already installed, the first step would be to undo the screws and remove the lock from the door. Then separate the rubber escutcheon and

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#FD - 8

**FORD 8 CUT  
DECODING  
KEY SET**



set aside the outside lock body. Just above the small rectangular plate that was removed for hand changing, there is a much larger plate held on by four red screws. In *photograph 17*, three of the four screws have been removed, and the last one is being undone. Carefully remove the plate,



**13. Make sure that the inside thumb-turn works properly.**



**14. The lock is mounted right-handed.**

as in *photograph 18*. There are springs on the back of the plate for every push button position. Of the fourteen push buttons, all but the "C" (Clear) button can be part of the code. Those thirteen buttons are numbered 1 through 0 and X, Y and Z. A standard factory code will



**15. The correct combination must be entered to unlock.**



**16. Turning the knob clockwise retracts the bolt.**

require that five of those thirteen buttons be pushed. Pushing any more or less than the specific five buttons will prevent the unit from unlocking.

In each of those thirteen spots there will be either a blue or red tipped tumbler. There are five red tumblers (code) and eight blue tumblers (non-code). The spots with red tumblers should be pushed and the buttons with blue tumblers should not be pushed. If a wrong button is pushed, the clear button will reset the lock so the code can be re-entered. To change the code or combination, it is necessary to rearrange the red and blue tumblers so that different buttons need to be pushed to unlock the unit.

A set of tweezers can be used to remove the tumblers as shown in *photograph 19*. The "C" (clear) button tumbler should never be removed. It is suggested that the clear button be pushed while you remove or replace tumblers in any of the button positions. They might be awkward to position otherwise. Tumblers have been removed from button positions #4 and #5 in *photograph 20*. The tumbler in my left hand is red (for button #5) and blue in my right hand (for button



**17. Three of the four cover plate screws have been removed.**



**18. Carefully remove the cover plate.**





**19. Remove the tumblers as shown.**



**20. Tumblers have been removed from button positions #4 and #5.**

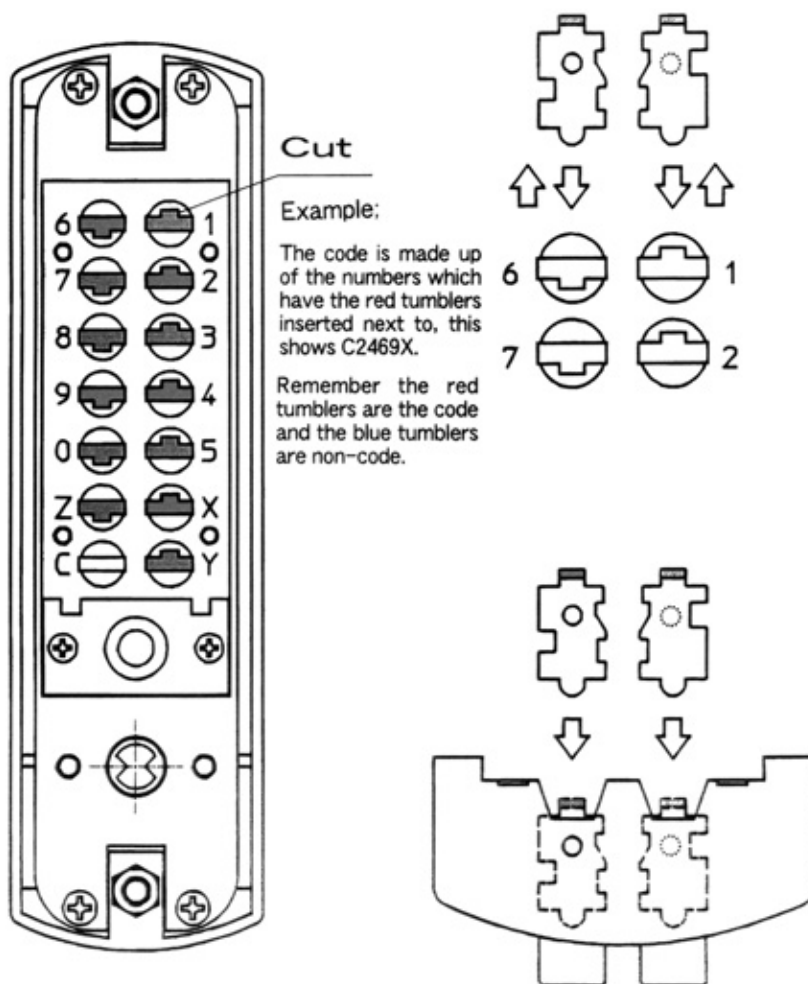


**21. A close-up view of both tumblers**

#4). A close-up view of both tumblers can be seen in *photograph 21*. Notice the squarish notches in a front or back position. Red has the notch toward the face of the lock case, and blue has the notch to the back.

The sample lock I received had a packet with one extra blue and red tumbler. From reading the instructions with the lock, it is my impression that two of each should normally be included with the lock. By increasing the number of red or blue tumblers you can alter the number of digits in the lock opening code. While the standard code has five digits, you can decrease it to a three-digit code by removing two red tumblers and replacing them with two blue tumblers. You can convert it to a seven-digit code by using two more red tumblers to replace blue tumblers. It should be possible to set

While pressing in the C button make sure that the coloured top end of the tumbler is facing up wards. Match the  of the tumbler to the exact cut insert of the body.



Using the tumblers provided you can change your code from a 3 digit number up to a 7 digit number, always prefixed by C to clear.

To increase, remove the blue and add the red.

To decrease remove the red and add the blue.

(If you insert a tumbler in the wrong position, press in the C button and lift the tumbler out).

#### **A. The layout and positioning of the code tumblers.**

the lock code from anywhere between three and seven digits. *Illustration A*, shows the layout and positioning of the code tumblers.

#### **FINAL THOUGHTS**

I found the DIGITAL Door Lock a lot simpler to service than I remembered it to be. I still have a gripe with the quality of the installation instructions even though you can afford to goof up and still cover your mistakes with the lock body or trim plate. Overall, I was generally impressed with the lock, although I'd like to see if there are

any significant servicing differences with the other lock models.

For more information, contact: Douglas Hill, DIGITAL Systems, 116 W. Michigan, P.O. Box 543, Mt. Pleasant, MI 48858. Phone: (989) 773-2363, FAX: (989) 772-1936, Toll Free Fax: (866) 404-5244. Find them online at: [www.digitaldoorlock.org](http://www.digitaldoorlock.org). You can find updates and corrections for my articles on my web page at: <http://home.earthlink.net/~lockwriter>. Click on my link to "Tech Article Addendum". Circle 301 on Rapid Reply.

**TNL**

# The Lighter Side

## Wisdom of the Sages



by Sara Probasco

I love to give parties. In fact, I look for excuses to throw a “bash.” This is not a new phenomenon for me. For example, some sixteen years ago, when Don and I first discovered that the Chinese New Year occurs in February, we decided to invite some friends over to celebrate. (Any old excuse, right?)

It was a perfect time of year for entertaining. We were living on the panhandle plains of Texas, at the time. The harsh winter weather, which followed our usual holiday season there, had everyone suffering from “cabin fever,” so the idea blossomed into a welcome diversion for all.

Following a dinner of various oriental delights, I served fortune cookies. I never dreamed destiny could lie curled in the center of an almond-flavored confection. Nevertheless, there it lay, waiting to emerge into the palm of Don’s hand. He broke the delicacy open with a crunch and extracted the imprinted strip of paper from its folds.

“Aha!” he exclaimed. “Listen to this. ‘A new business venture will unlock hidden treasure.’ What did I tell you?”

Now, to some that message might have meant the advent of some great archeological find, or the discovery of some pirate’s forgotten booty. To my husband, however, it was irrefutable reinforcement of a decision he had already made to give up the business he was in and follow his dream of becoming a locksmith.

More than fifteen years have passed since we first approached that symbolic door behind which lay the predicted treasure-trove, and we’re still trying to pick the lock that seals our fortune. That fact, however, has not diminished our delight in fortune cookies.

For several years, I would leave the shop at noon, on Wednesdays, and go home to write. Don and I used this as an excuse to have lunch

together at a little Chinese restaurant across the street from our shop. At the end of the meal, we would linger over tea and fortune cookies before going our separate ways.

The little slips of paper often wound up on our bulletin board, and our collection of sayings became quite interesting (although we sometimes wondered just how “sage” the predictions really were). For example, one day my fortune stated, “Things may not turn out as badly as you think.” How would you like to start your afternoon with that cheerful thought?

I must admit that I have heard of worse. “Hurry home. Your best friend is having an affair with your wife,” appeared in the cookie of a friend at a recent party. “Be cheerful. After all, there is more to life than prosperity,” was in another. Great party!

The fortunes we saved were often more generic in nature, sometimes requiring interpretation. For example: “Pray for good harvest, but continue to hoe.” (Translation: Just because it looks like a good month coming up, that doesn’t mean you can afford to get lazy.); “Let words remain smaller than actions.” (Translation: Don’t let your mouth overload other parts of your body); “When arguing with a fool, be certain he is not similarly engaged.” (Need I explain?) We have found that there are appropriate sayings for nearly all occasions in life.

After a while, our interest in the Chinese went beyond the weekly lunches and fortune cookies. We decided to have another party. Having purchased a murder-mystery game entitled “Hu Hung Woo,” we invited three other couples to join us for an evening of food, fun, and mystery.

Everyone came in costume as befit the character which he or she had been asked to portray in the solving of the make-believe crime. I

carefully braided black panty hose into a pigtailed wig for Don and created slanting eyes and a long, drooping mustache and beard with the help of latex, fake hair, and make-up. Dressed in a long, embroidered “happy coat”, he looked every bit the ancient Chinese sage. Our guests dressed in a variety of appropriate costumes. One even rented a Chiang

Kai-shek military costume, complete with red and gold epaulets, horn-rimmed spectacles, and buck teeth.

It was “General Chiang” who accompanied Don on the inevitable midnight service call. In full costume, they climbed into Don’s service van and hurried to the all-night cafe where an elderly lady had locked her keys inside her vehicle.

As fortune would have it, the lady was a native Uvaldean who knew practically everyone in town. After scrutinizing the two men suspiciously for several minutes, she said, “I don’t believe I’ve met you gentlemen, before. Do you live here?” Don claims they kept reasonably straight faces as he smiled and nodded.

“Ah, so!” he muttered from time to time while working feverously to get into the car in record time. Need I say, he never told the woman his name? (Confucius say, “To save face, keep part of it shut.”)

Those of you who offer twenty-four hour service are well aware of the fact that locksmiths, like doctors, are often called out at odd hours and under unusual circumstances. It is also usually at the most inconvenient times possible and always at the precise moment when supper is set before them, no matter how unusual the time. Many calls do not turn out to be what you would expect. For instance, there was one locksmith who told of the time an acquaintance called for help after hours. He instructed the locksmith to come to the top of a certain office building.



Supposing that there was a malfunctioning lock on a door which led to the roof, the locksmith hurried over to see what he could do. When he arrived, however, he discovered that his friend simply needed help rigging an inflated replica of King Kong atop the building, as a practical joke on someone. (Confucius say, "He who climb tall building in summer may have dangerous fall.")

The wife of a locksmith whom we know used to operate a chauffeured limousine service out of a town near San Antonio, Texas. One evening they were preparing to attend a gala affair in the city, complete with formal dress and tuxedo, and had decided to travel in one of their new luxury limousines. As they were preparing to leave the house, the telephone rang.

You guessed it!

With insufficient time to change into work clothes and still arrive at their social function punctually, they decided to forgo the locksmith van, as well.

Besides," they said to one another, "what better way to advertise our new limousine service?" (Confucius say, "Man never has second chance to make first impression.") Grabbing their car-opening tools, they hastened to the motorist's rescue.

Can you imagine the look on their astonished customer's face when a locksmith stepped out of the long, white, chauffeured, luxury limousine, dressed in full tuxedo? Talk about white-glove service! I dare say, that may well have been the most elegant car-opening in history.

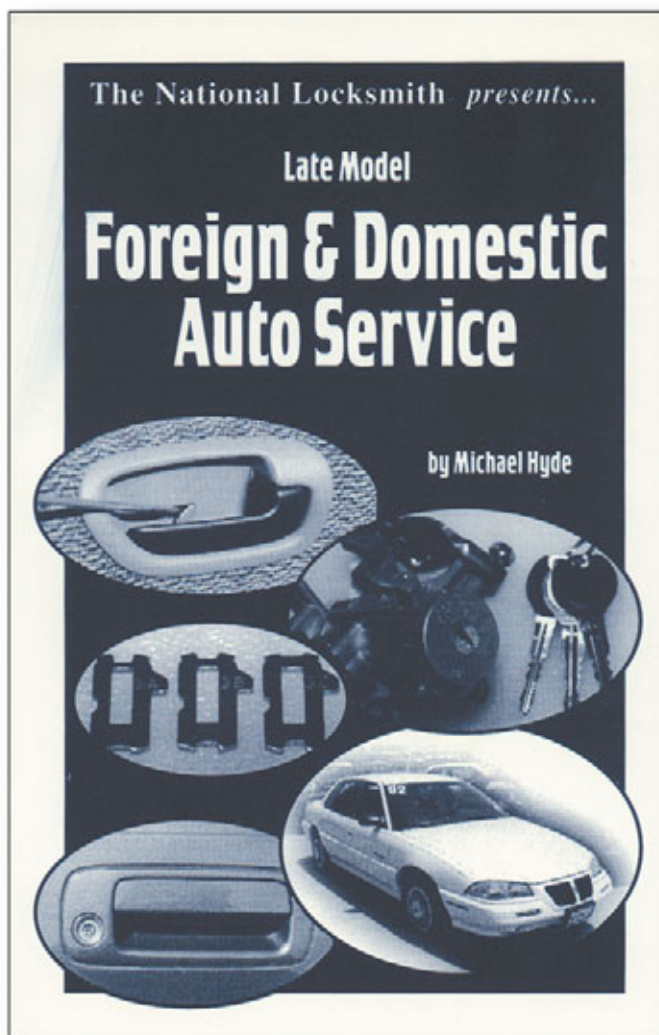
TL

#### A NOTE FROM THE CIRCULATION MANAGER

I don't want **you** to be left out... but sometimes we do run out of back issues. Please be sure to send in your **Renewal Payment** on time and your **Change of Address** at least 4 weeks in advance. Then you won't be the one receiving a note saying, "Sorry, we ran out."

Send your name, old address and new address to:  
The National Locksmith Address  
Change Dept.  
1533 Burgundy Pkwy.  
Streamwood, IL 60107.

## Foreign & Domestic Auto Service



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#FDAS - 1

# A-1's FORD & CHRYSLER Ignition Removal Tools



by  
**Richard Allen  
Dickey**

Now A-1 has introduced their PS-4 and PS-5 ignition removal tools for Ford 8-cut and Chrysler vehicles.

Some of you may remember an article I did in the June 2001 issue, about the A-1 Security PS-2 and PS-3. They were ignition removal tools for General Motors products.

## *The PS-4 Ignition Remover*

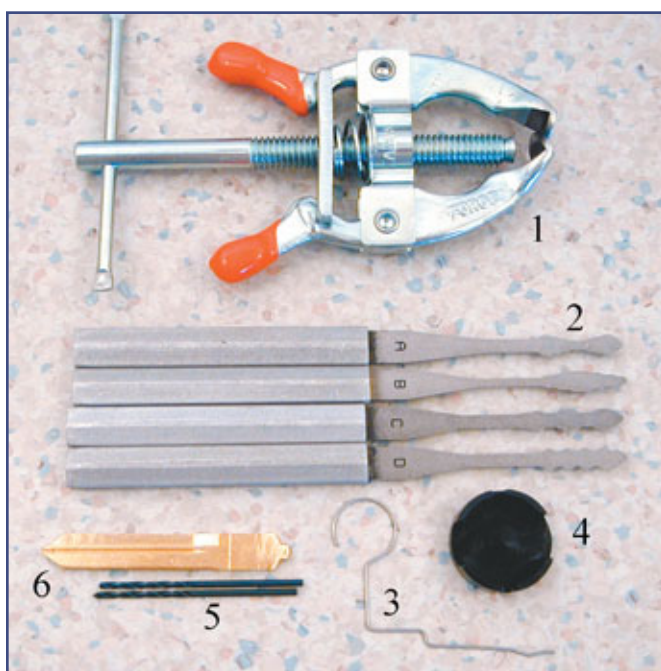
The PS-4 consists of a bezel pulled, four picks, tension tool, drill jig, bits and a push blade. (See *photograph 1.*) The push blade is used in conjunction with the bezel puller. It is kind of a neat idea and it is used in the first step.

In order to prepare the lock for picking, the bezel must be removed. The puller, in conjunction with the push blade, will do the trick. (See *photograph 2.*) The push blade is just a modified key blank. The modification is made at the bow of

the key. Basically the bow is cut off and brought to a point. The point gives the puller something to push against as it removes the bezel.

The push blade is inserted into the keyway and the feet of the puller fit between the bezel and the shroud. Turning the handle on the puller puts pressure on the bezel until it pops off.

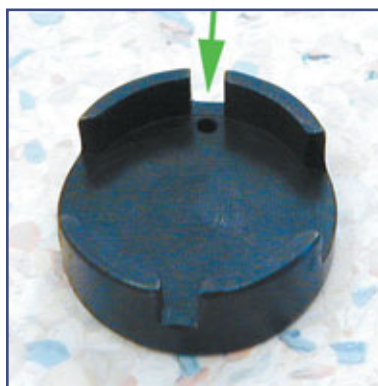
The next step is to drill an access hole so you can put pressure on the sidebar. The bit should stick out from the drill exactly 850 thousandths. Any deeper and the lock could be damaged.



1. The complete PS-4 ignition removal tool for 8 cut Ford products.



2. A special bezel puller and push blade is used to remove the bezel.



3. A drill jig is used to ensure a perfectly located hole for the tension tool.



4. The tension tool is used to apply pressure to the side bar.



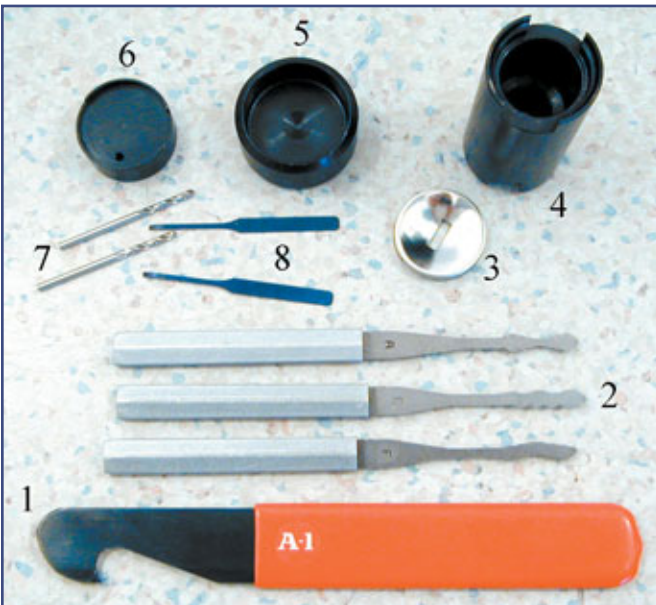
8. The drill jig for the Chrysler is used in the same way as the drill jig for the Ford.



5. Four different picks are provided with the PS-4.



9. The tension tool has a curve at the end.



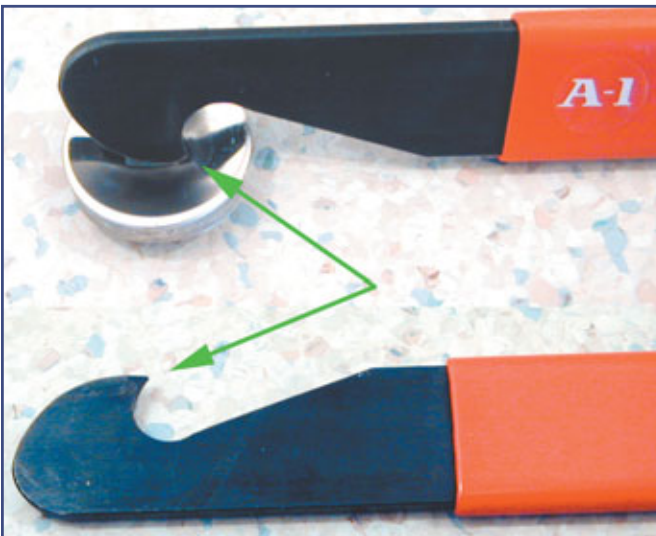
6. The PS-5 for Chrysler has a few more tools than the PS-4.



10. Three picks are provided with the PS-5.



11. This staking tool is used to crimp a new facecap onto the lock.



7. This heavy-duty pry tool is used to remove the facecap.

Place the drill jig on the face of the lock so that the notches in the jig match the projections from the lock. (See photograph 3.) It will go on two ways. To be sure you have it correct, make sure the small hole in the jig is to the left when the jig is in place. Now drill the hole.

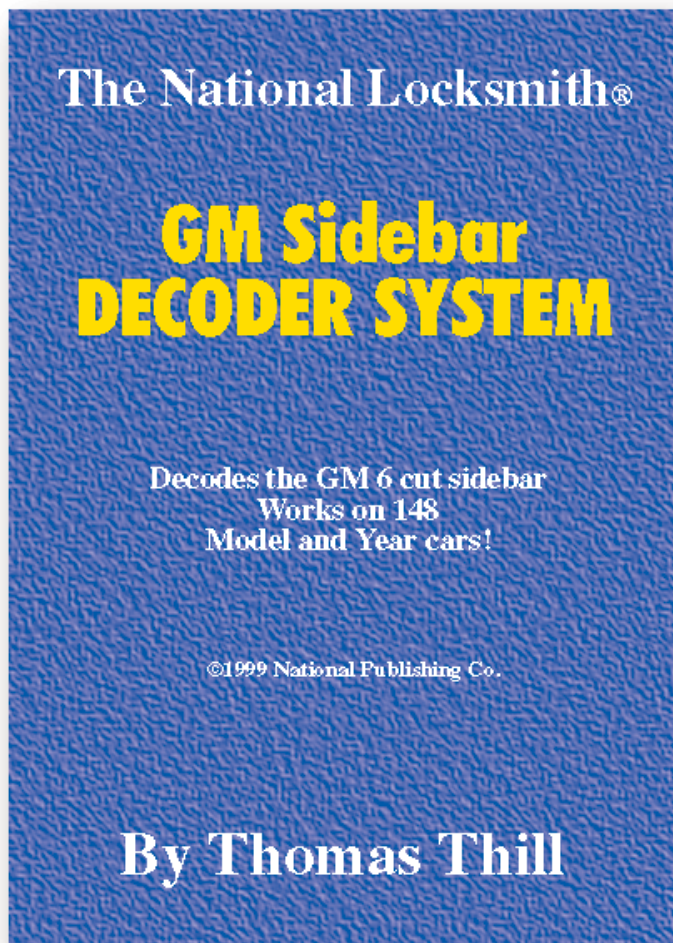
The tension tool is inserted into the hole and light clockwise pressure is applied. (See photograph 4.) Using one of the picks provided, pick the lock. A-1 suggests that if the lock is not picked within 30 seconds, select another pick and start over. (See photograph 5.) Too much pressure from the tension wrench will inhibit the picking process.

When the lock is picked, it will only turn a little. The tension tool has to be removed. If you do not keep clockwise pressure on the lock with the pick while removing the tension tool, it will relock. That means you have to start over.

After the tension tool is removed, the lock will still not turn until the key buzzer is raised. The easiest way to do this is to hold the face of the lock with your thumb, remove the



# GM Sidebar Lock Decoder System



Tom Thill, the author of a new book, has invented an amazing new way to make keys for six cut GM Sidebar Locks.

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#TT - 1

pick and partially reinsert the push blade. The push blade can be used to turn the lock to the run position. An access hole in the shroud will allow you to press the lock housing retainer. Remove the lock and this stage of the job is done.

## *The PS-5 Ignition Remover*

The PS-5 consists of a cap removal tool, three picks, some new facecaps, staking tool, staking cap, drill jig, bits and tension tools. (See *photograph 6.*) You get a few more tools in this set, and you need them.


The first step is to remove the facecap. The cap removal tool has a very sharp point. (See *photograph 7.*) This point is inserted into the keyway of the lock. With the removal tool, the facecap is easily pried off.

Adjust the bit in your drill so that it sticks out 750 thousandths. Place the drill jig on the lock face so the drill guide is to the left of the keyway. (See *photograph 8.*) Now you can drill the hole.

Two tension wrenches are provided. Notice the curve at the end of the tension wrench. (See *photograph 9.*) Slide the tension wrench into place and make sure that the curve is pointing away from the center of the lock.

Grab a pick and start picking. (See *photograph 10.*) Like before, if the lock is not picked in about 30 seconds, grab another pick and start over. Picks "E" and "F" are double-sided with a different shape on each side of the pick. Turning it over is like having another pick. After the lock is picked, rotate it to the run position. Depress the housing retainer and remove the lock.

To replace the facecap, A-1 has made a really neat tool. The tool has two parts: the staking cap and the staking tool. (See *photograph 11.*) The way this works is to place the staking cap on a hard surface. Place a new facecap in the staking cap. Align the lock plug to the facecap. Slide the staking tool over the lock until it comes into contact with the new facecap. Tap it with a hammer until the facecap is secure. What do you think of that?

For more information about these products or others produced by A-1, call them at: (877) 725-2121. Circle 302 on Rapid Reply. 



# Beginner's Corner

By  
Raymond  
Moreno

## H.B. Ives Dust Proof Strike

This month we're entering into the wondrous world of, "Doing Something Different." You see, today we're not gonna be actually working on the door itself, as much as ensuring that it will secure properly.

Let me take a moment to share some of my thoughts with you. Firstly, I am fully aware that many locksmiths do not take-on certain jobs for one reason or another. But in my book, if it has anything to do with a customer's security, I'll go for it. Don't get me wrong, I'm not talking about using the customer as my guinea-pig by having no basic knowledge of what I will be doing, and experimenting on their property. I'm talking about taking-on a job that I have never done before, yet having a good working knowledge of what needs to be done.

Secondly, because I love to continually expand my knowledge of this trade, I'm always striving to learn every aspect of locksmithing that I can. Which includes staying on the cutting edge, and doing things that other locksmiths cannot, or will not, do. If installing a door from scratch, means learning to do some basic carpentry-work like messing with the threshold, header, jack stud, or king stud, then I'm all for it.

Thirdly, this is the greatest trade in the world for someone who as a child, used to take apart their parents radio's, toasters, and televisions, to see how they work. So if you're anything like me, you should love the challenge of learning something new. And this next piece may just fit the bill.

I got a referral from a newly relocated interior design company that moved into a newly constructed building. Initially the call was to draw-up, and install, a master key system. But when that job was completed, my marketing radar kicked-in. I did a walk-thru of the

account with the customer checking the operation of all the doors, and offering suggestions that I thought would make their life so much easier. Well, as chance would have it, it did give me a few more leads.

First off, they needed to have a transformer hooked-up to get their electric handle-sets to open the main entry door, which I happily complied with. Then they had a few hollow-metal doors, and wooden-framed glass doors, that were rubbing pretty badly on the newly laid carpeting. Which I also corrected by adjusting the hinges on the hollow-metal doors and planing the underside of the wooden-framed glass doors.



**1. There was no floor strike.**



**2. Ives Dust-proof Strike.**

Lastly, I came across four sets of interior double-doors that needed dust-proof floor- strikes installed. With the door partially opened, you can see that there was no hole in the ground for the flush-bolt to enter. (See *photograph 1.*) This left the bottom portion of the doors unsecured. Worse yet, when an exterior door was opened, (which caused a vacuum in the rooms), the doors rattled. Being an interior design business with designers concentrating on their designing/drafting skills, this was a definite no-no!

I offered to remedy their problem with a set of H.B. Ives dust-proof strikes. In *photograph 2*, is the Ives dust-proof strike (#489B 26D X 487B) that I choose for this job. The set consists of the strike plate, the plunger, and the appropriate screws and lag shields.

With a little patience and the correct tools, these floor-strikes are really not too difficult to install. These strikes also come in a variety of finish options.



**3. A piece of paper positioned under the door.**





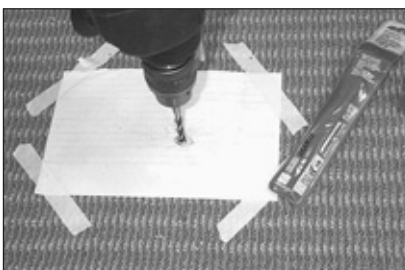
**4. Activate the flushbolt to leave a nice impression mark.**



**5. The mark is circled.**



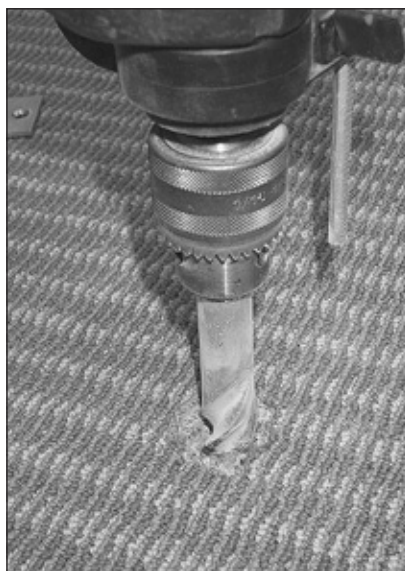
**6. A cobalt bit is used to get through the carpet.**



**7. I switched to a masonry-bit to tackle the concrete.**



**8. My best impersonation of Marcus Welby, M.D.**



**9. The 1" Big Mama carbide drill.**

### Concrete Foundation Installation

O.K., it's time I hike-up my blue leotards, remove my red cape (because it was getting in my way), and I'm ready to rummmble!

What I do first is tape a piece of paper immediately under the flushbolt with the door in the fully closed position. (See photograph 3.)

Once that's done, I pull-down on the handle of the flushbolt, to extend the bolt. (See photograph 4.) This action leaves a nice mark on the paper that I then circle to make easier to see. (See photograph 5.)

Let me side-step here for just a moment. First off, there are three different materials that I will be installing these floor strikes onto. The two bottom-level doors have a concrete foundation, while the two upstairs doors have a wooden foundation. Plus there was carpeting that I would also need to cut. I will cover both installation processes and reveal my errors so you won't make the same mistakes.

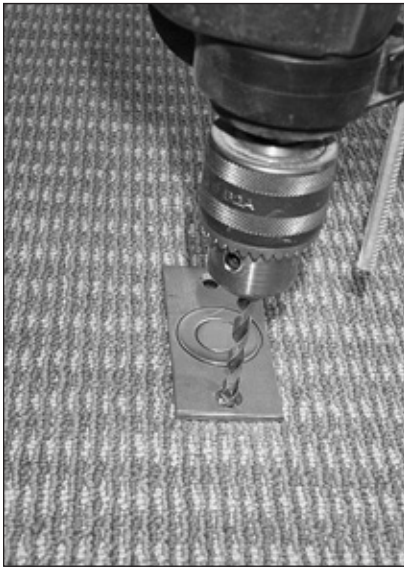


**10. Putting the Ives strike together.**

I will start-off by admitting that I was not too sure how to make a clean hole in this type of carpet without causing a "run" in the material. I started off by first making a pilot hole with a cobalt bit to cut through the carpet. (See photograph 6.) Then I switched to a masonry-bit to drill into the cement foundation, which worked nicely using the highest RPM setting. (See photograph 7.) Just in case you don't know, you have to use a hammer-drill on the concrete. If you don't you may be there a long time!

With the pilot hole drilled, I then cut a 1" diameter hole in the carpet. (See photograph 8.) This was to accommodate a 1" inch masonry-bit to enlarge the initial hole. (See photograph 9.) I was still stymied as to how to get a cleaner hole. I was satisfied with the cuts that I had made, but there had to be a better and cleaner way to make the hole in the carpet! As a note of caution, when drilling into concrete, make sure you vacuum-up the concrete residue, as it is being forced-out of





**11. The first screw hole is being drilled.**



**12. A lag-shield is installed.**

the hole. This will extend the life of your drill-bit, and also save you a huge mess!

Now that the 1" inch hole has been drilled, it is just a matter of putting together the Ives dust-proof strike parts and dropping it into the hole. (See photograph 10.) With the strike in position, I then drill one hole to fasten the strike (See photograph 11.) With the fastening hole drilled, the strike is removed and a lag shield is placed into the hole. (See photograph 12.)

After placing the lag shield into the concrete, I install the strike and secure the first screw, then mark the spot for the second screw. (See photograph 13.) With the second screw position marked, I remove the strike and drill the second hole. (See photograph 14.) Notice the mess it makes. The strike can now be permanently installed.

#### Wood Foundation Installation

Now let's install one in the wooden foundation, which is quite a bit easier than the concrete. To do



**13. Screw the first screw in and start drilling the second hole.**

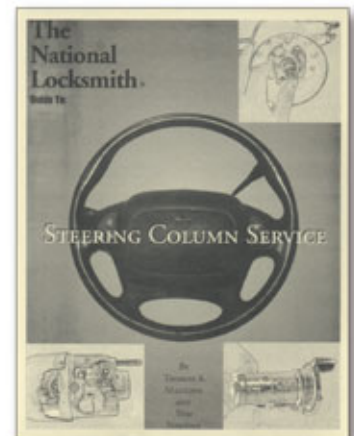


**14. The second hole getting drilled.**



**15. For the wooden foundation use a hole-saw.**

## GM Steering Column Course

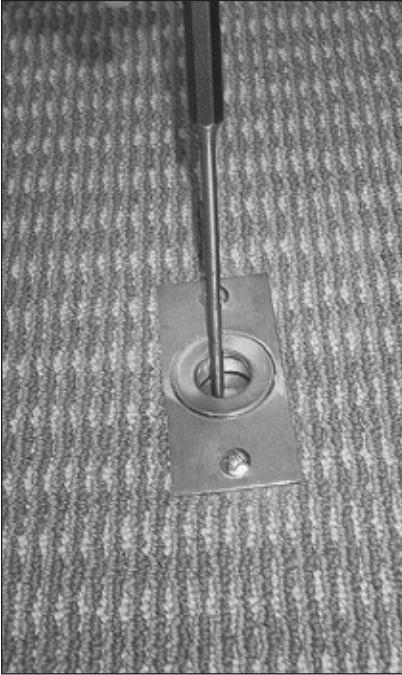


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#GM - 2



**16. See how the plunger is spring-loaded.**

so, just use a hole-saw at the highest RPM setting and it works perfectly. (See photograph 15.)

Here's the trick I learned from doing this. If you use the highest



**17. The finished masterpiece.**

RPM speed that you have, on short-haired carpeting drill into the carpet about a 1/16" at a time. Pull the hole saw back out and drill another 1/16" inch deeper. Step and repeat the process. What I learned is that at the high RPM setting, the hole-saw will

actually melt a nice clean hole into the carpet if the fibers are synthetic. I finally got my nice, clean holes!

If you are still concerned about snagging the carpet, just use a sharp knife to cut it. It's always better to be safe than sorry.

In *photograph 16*, you can see a close-up of the dust-proof plunger in action. It is spring-loaded and will depress into its socket when the door bolt is in the locked position. When the door is unlocked, the plunger will now be flush with the floor's surface. (Pretty cool, huh?)

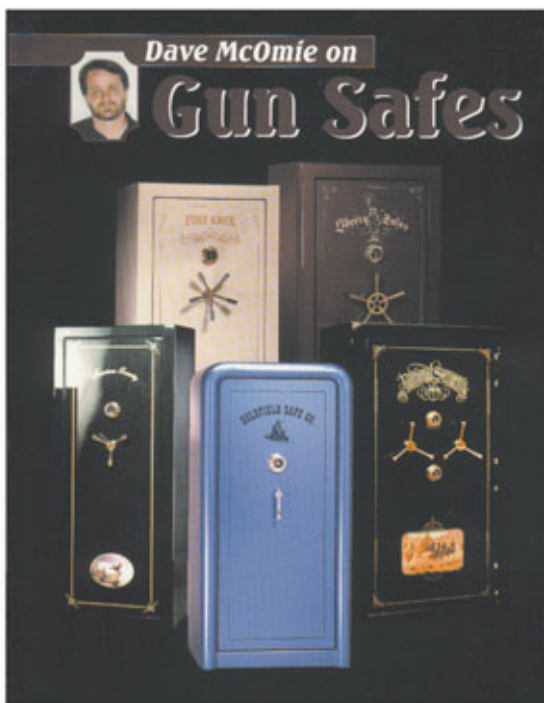
The finished masterpiece can be seen in *photograph 17*.

Let me close by saying that this falls under the category of "specific/specialized" work. It is not difficult, but if you make a mistake, you will pay dearly for it. So charge accordingly!

Till next time, be good and leave the customers in awe of your amazing talents!

For more information on Ives products call: 800-766-1966.

**IRL**



## Gun Safes

Need a drill point or relocker drill point on a gun safe?

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#GS - 1



# Vault Door Upgrade



by Dale Libby, CMS

Bank work is not a large part of my business anymore. The only time I am called to do work is when the primary bank service company cannot, or will not, do it. This is fine with me. Most banks are under major service contracts that will not let independent service companies bid for services that are covered under the blanket repair contract.

Service contractors must look good, at least that is what my bank service provider tells me. He has a dress code to do the work in his banks. I tell him that there will be a small upgrade in the price and he thinks that I am kidding. I never kid about money. So, I dress up and go in and look at the LeFebure fire rated bank vault door. The dial and handle are shown in *photograph 1*.

The dial is a spy proof S&G top reading and the handle is located to the right of the dial. The opening side of the vault door is also to the right. He wanted a LaGard SwingBolt installed.

Without taking off the back cover yet, I correctly surmise that the S&G lock is mounted Horizontal Left (HL). So far, the installation of the LaGard SwingBolt seems to be a piece of cake. In *photograph 2*, you see the inside of the vault door with the "T" handle escape mechanism. To activate the escape apparatus, one has to push in the handle and turn Counter Clock Wise. (See *photograph 3*.) This pushes the large cam plate below the bolt of the S&G lock and allows the handle to be turned while the combination lock is still locked. There is a small red card attached to the vault door access panel with the instructions written on it.

After removing the cover, the lock is exposed, but the relocking device is still hidden. This means that I will have to take off the thirty or more sheet metal screws around the perimeter of the inner panel of the vault door. The cover is only sheet metal, but the screws are painted. Removing the large plate will be

difficult, but not impossible. Battery operated screw drivers are a must for this type of work.

I called the main contractor and got the go ahead for the retrofit, from the mechanical to a digital lock. I chose the LaGard Swing Bolt with the old 8-wire connector system. I had a new one in a box and would use it. I tested it and it worked fine. The installation was pretty standard.

Remove the back cover of the lock and the relocking linkages. Remove the spline key and drive cam. Unscrew the dial from the front of the vault door. Remove the two dial ring screws and remove dial.

1. Reinstall the special shouldered keypad mounting screws in the dial ring screw holes. The threading is 8/32. Now remove the 4 screws that hold on the case of the mechanical lock. They are threaded 1/4 X 20. Remove the mechanical lock combination case.

2. Clip the plastic connector at the end of the keypad wire and discard.

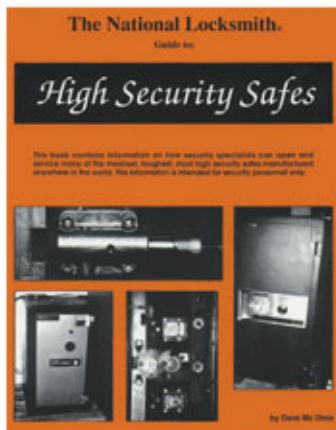


**1. LeFebure Vault door with S&G 6730 combination lock mounted Horizontal Right (HR).**



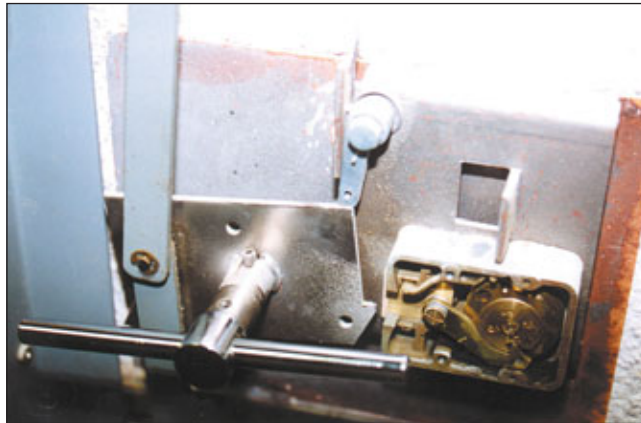
**2. Inside Escape Handle. Push the handle in and turn it CCW to withdraw the bolts and to open the door.**

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**3. Relocker activated. The bar springs into place to keep the large cam plate from turning when activated.**



**4. Bent plate with a slot located above the lock. Slot holds link in alignment with back cover relocker plate pin.**

Push the wire through the spindle hole leaving a little slack and put the keypad on the vault door by placing the pad over the mounting screws and pushing downward.

3. Mount the inside SwingBolt lock (making sure it is handed correctly) with the three mounting screws provided over the wire through the spindle hole, making sure the wire is routed through the channel in the underside of the SwingBolt lock.

4. Cut and strip the wire with a special AMP cable tool. Make the wire long enough to fit into the lock easily, but not too long. There is a raised rib on one side of the wire. This must be on top in relation to the spring clip on the connector end. Put the wire and clip into the special tool and squeeze. Voila, the clip is installed to the end of the wire.

5. Reinstall the relcock plate to the back of the lock, being sure to thread it through the fusible link. Use longer 8/32 screws to make sure the link and plate are fully connected.

6. Now attach the plastic end into the lock in the appropriate slot. Remove the dial pad on the front of the door by pushing upwards on the dial pad. Install two alkaline 9-volt batteries under the dial pad being

careful with the small wires on the 9-volt connections. Reinstall pad and try factory combo of 1-2-3-4-5-6. If the lock beeps twice, everything is OK.

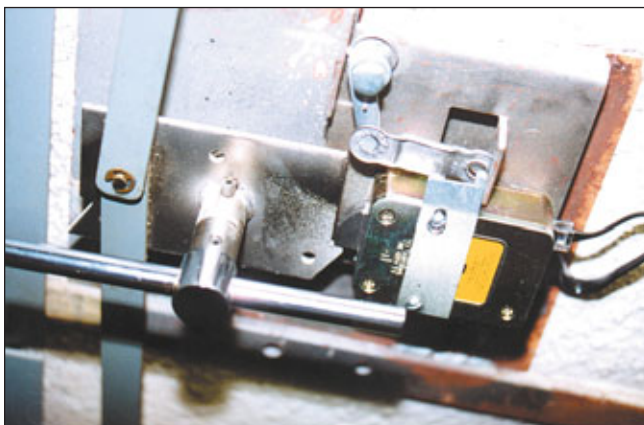
That is all that there is to this. Here are a few special points to ponder. In photograph 4, there is a plate above the lock with a slot in it. When reattaching the link to the relocker bolt, the end of the link must pass through this slot to hold the link on the end of the plate pin. If the door is torched, the fusible link will break and set off the relocker. If the lock is punched through the spindle hole, this will set off this relocker also.

Photograph 5, shows the whole retrofit and the correct positioning of the relocker plate, bar, and fusible link. To the right of the lock you can see the wire cable and connector. What would happen if the relocker were set off when someone was in the safe. Would the escape mechanism still work? The answer is yes!

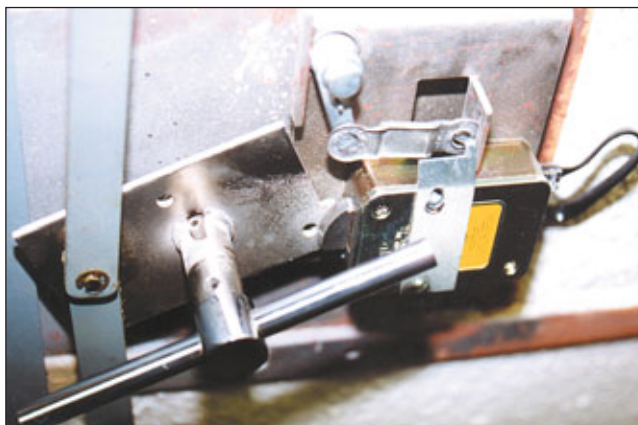
In Photograph 6, we see the new lock installed with the cam plate pushed in. The plate easily goes below the locked spring bolt lock bolt. If the relocker is set off, the plate goes under the relcock lever too.

All in all, it was a pretty easy job





**5. New lock (LaGard SwingBolt) with relock thermal link and cover installed.**



**6. Inside escape handle pushed in and turned.**

with no unforeseen problems. The hardest part was reinstalling the back plate of the vault door. I cleaned all the screw tops of paint before I reinstalled them. The customer was quite happy with the new lock. I changed the combination to their specific numbers. Changing the combination on this lock is quite simple. On the back of the lock is a sticker with 6 numbers on it. Peel it off and stick it on your invoice. In case of trouble or a lost combination, all one has to do is to punch in these numbers on the keypad and it will

change the combination to 5-5-5-5-5-5.

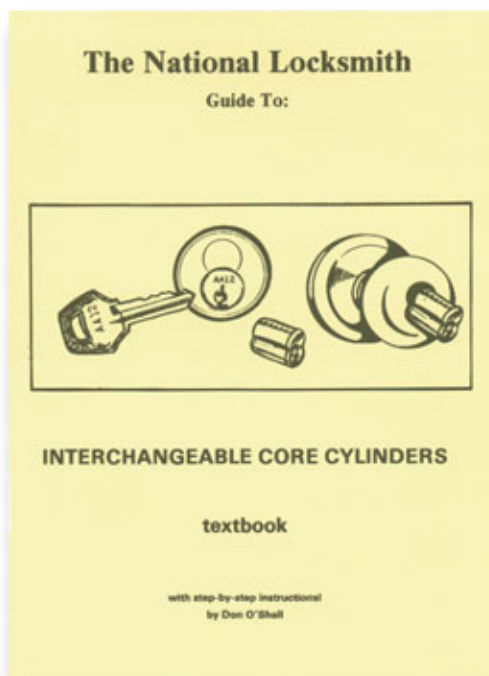
On these locks, there is no special Master Combination or override combination other than that on that sticker. Here is how to change the combination. I remember it with the 0-1-2 mnemonic.

1. First, punch in six zeros: 0-0-0-0-0-0. The lock will beep twice.

2. Next, enter the old combination once and the lock will beep twice.

3. Now, enter the new combination twice, getting two beeps after entering each 6 number combination. That is all there is to it.

If you get three beeps, then start again. The combination will not change off the old numbers until the new numbers are set. Always do this with the door open in case you mess up. If you do manage to lose the combination, just try the override numbers on the tag and you will set the combination to all 5's. Use the 0-1-2 processes to reset the combination to the correct number. Make the customer try it a number of times and you are done. Get the invoice signed and you are on your way. Open, retrofit, and prosper! **TNL**



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- Emhart System 70 Removable Core
- Sargent Removable Core
- Schlage, Yale, Lockwood
- Medeco Removable Core

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# BUSINESS BRIEFS

## **Gil-Ray Area Code Changes**

The area code for Gil-Ray has been changed from 517 to 989. The Bay City, Michigan company, which sharpens all brands, types and styles of key machine cutters to factory specifications and also sells new cutters, can be reached at: (989) 892-6870.

## **Andrew's Gets Visalock and Appoints Reiss**

Andrew's Wholesale Lock Supply has been selected as a distributor for Visalock, a manufacturer of high quality knob sets and deadbolts with the SCI keyway. Visalock joins Andrew's other lines, including Strattec, Auto Security Products, Jet, Framon and A-1. In Addition, Matthew J. Reiss has joined the company as national sales manager. Over the past six years, Reiss has worked for Strattec in their East Coast headquarters offices, and for Somerset Security, which represents Framon, A-1 and Somerset key blanks.

## **XL Lock Manufacturing Completes Move**

XL Lock Manufacturing today announced that it has completed the relocation into a new larger facility in Oxnard, California. The new facility will allow room for additional expansion over the next few years, as the previous facility was pressed for capacity. The new facility is producing can locks, mailbox locks, as well as various wafer and pin tumbler locks.

For further information contact Kevin Holden, XL Lock Manufacturing at: (805) 483-1838.

## **RQ Associates Selling Inventory**

RQ Associates, which has been selling safe servicing equipment to the security trade for many years, is closing its doors and selling its remaining inventory. Richard

Quinn of RQ Associates said he has several borescopes and illuminators, which he will "sell at a good price."

RQ Associates can be reached by phone or fax at: (734) 671-2359, or by mail at: 8093 Berkshire St., Grosse Isle, MI 48138.

## **Wilson Safe Company**

Wilson Safe Company has been named representatives and master distributor for the ISM High Security safe line. ISM has been manufacturing high security safes since 1914 and is best known for the Jewelers Safe US rated TLTR30X6. ISM also manufactures US rated TLTR15X6, TL30X6, TL30 and TL15.

For more information call: (800) 345-8053, Fax: (215) 492-7104, E-mail: wilsonsafe@aol.com, or Web: www.wilsonsafe.com.

## **Essex Industries and Diebold Announce Strategic Partnership**

Essex Industries and Diebold Incorporated announce a strategic partnership that will provide customers with integrated solutions for doors, locking hardware, surveillance, alarms and access control systems.

The Essex companies manufacture a full range of mechanical locking devices, along with electronic hardware products vital to the complete electronic integrated systems. Diebold is a global leader in providing integrated self-service delivery systems, security and services.

Through the partnership, Diebold will provide and install the access control equipment and electronics, and Essex will provide door and hardware products.

Visit the Website at: www.diebold.com.

## **Mayflower Sales adds Three Major Lines**

Mayflower Sales, a leading distributor of access control

and architectural hardware for over 80-years, has added three new lines to its inventory: Jackson exit devices and concealed door closers, RCI electric strikes and Roton continuous hinges.

In its continuing efforts to offer the locksmith and access installer unparalleled selection, service and support, Mayflower will publish its first complete line catalog this year.

Contact Mayflower Sales at: (800) 221-2052, E-mail: pilgrim@mfsales.com, or Web: www.mfsales.com.

## **Aiphone Sponsors Habitat for Humanity**

Aiphone Corporation has made a commitment to Habitat for Humanity; to donate 250 ChimeCom2 Door Entry Intercom Systems for installation in Habitat homes in Washington State, over the next five years.

"Aiphone Corporation has viewed the Habitat for Humanity organization, from its inception, with a great deal of admiration," said Harry Quanz, Executive Vice President/General Manager for Aiphone.

Aiphone products will be installed at Patterson Park, a 1.3-acre site in Redmond, Washington, where 24 three-story town homes will be built. Work on the site is expected to begin next spring.

## **Securitron iMXD Integrated Door Movement System**

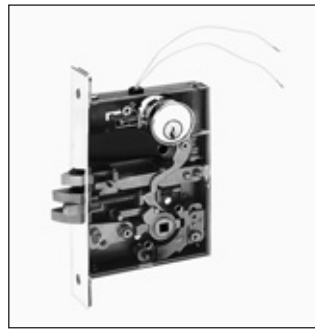
Securitron Magnalock Corporations Exit Delay systems secure egress doors electronically, while permitting routine delayed egress from within. The iMXD fully complies with NFPA 101 Life Safety Code - Special Locking Arrangements and meet all U.S. and Canadian model codes without specifying versions of the system.

For more information call: (800) 624-5625 or E-mail: info@securitron.com.

## **CCL Debuts Improved Web Site**

CCL Security has improved its web site: cclsecurity.com. The site includes the entire company catalog of padlocks, cam locks, Sesamee and Pretolock products and much more. The entire product catalog is downloadable from the site. Also included on the site are links to distributors who handle CCL products and a convenient trade show schedule.

## **Security Lock Stocks All Schlage L-Series Locks**



The entire L Series, in all keyed and non-keyed functions, as well as in every knob and lever design is now available at Security Lock warehouse centers.

All decorative finishes are also stocked. These heavy-duty commercial locks are U.L. Listed and excellent for use in commercial buildings and residences. The locks meet or exceed ANSI 156.13 specifications, providing maximum security and safety. Among the line's many features are its armor front in brass, bronze or stainless, corrosion protected steel case and parts, 1" throw deadbolt, unique cylinder retainer design for maximum security against wrenching or pullout and trim has no exposed screws. For complete information call: (800) 847-5625, Fax: (800) 878-6400, or E-mail: info@saclock.com.



# TECHNITTIPS

## YEAR-END PRIZES



**Grand Prize**

Silca Bravo Duplicator



**1st Prize**

HPC's 1200PCH  
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**2nd Prize**

Mas Hamilton's  
PowerLever 2000



**3rd Prize**

Curtis 2200 Duplicator



**4th Prize**

SDC Magnetic Lock,  
Keypad and Exit Switch



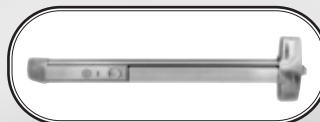
**5th Prize**

Securitron 12-Volt Unlatch Plug in  
Trans & Touchpad Retail Value \$650



**6th Prize**

LaGard "SmartGard"



**7th Prize**

Detex Advantex



**8th Prize**

Arrow 400 Series Alarmed  
Exit Device & S-75 Mounting  
Plate Kit for Narrow Stile  
Aluminum Doors



**9th Prize**

\$500 in BWD Products



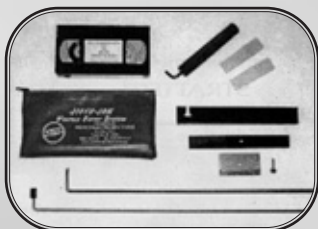
**10th Prize**

\$500 in ASP Auto Locks



**11th Prize**

\$500 in Strattec Auto Products



**12th Prize**

Tech-Train "Jiffy Jack"



**13th Prize**

Sargent & Greenleaf 6120  
Electronic Safe Lock



**14th Prize**

High Tech Tools  
2000 Pro Set



**15th Prize**

Slide Lock's Master "Z" Tool Set



**16th Prize**

ESP Products Sampler



**17th Prize**

Major Manufacturing's  
HIT-111 Drill Guide



**18th Prize**

Abus Padlock's Marine  
Padlock Display (\$120 Retail)



**19th Prize**

MBA USA, Inc.  
Falle Pick Set



**20th Prize**

Baxter JV-1 & JV-5  
Code Books



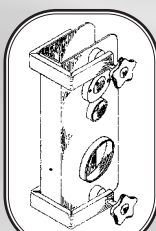
**21st Prize**

Sieveking Products  
Squeeze Play



**22nd Prize**

Rodann's RV500 Wireless  
Door Annunciator System



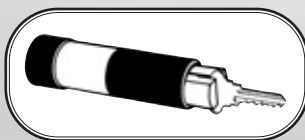
**23rd Prize**

A-1 Security Manufacturing  
Installation Jig



**24th Prize**

Keedex Sampler



**25th Prize**

Framon  
Impressioning  
Handle



**26th Prize**

Gator Tool Multi-Purpose  
Facecap Tool

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- Screwdriver
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- Major  
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Products
- Slide Lock's  
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Opening Set
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- Jet Key Blanks  
(100 Blanks)
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Tools
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#### How To Enter

Send a tip on how to do any aspect of locksmithing. Certainly, you have a favorite way of doing something that you would like to share with other locksmiths. Write your tip down and send it to:

Jake Jakubowski, Technitips Editor,  
The National Locksmith  
1533 Burgundy Parkway  
Streamwood, IL 60107-1861

Or send your tips via  
E-mail to: Natllock@aol.com

#### Rules & Regulations

Each tip submitted must include your full name, street address (no P.O. Box numbers), city, state, zip code, phone number, fax number and e-mail address.

#### Every Tip Published Wins

If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

Prizes are arranged according to suggested retail price value.

Tips Start  
on Next Page





*BWD KWIKIT  
WINNER:  
Interlock  
Adjustments*

I've had numerous calls from customers who can't get their key out of their ignition after turning the engine off. The key does turn the lock normally, but won't turn back to the lock or removal position.

The fault lies in the interlocks that prevent the key from being removed until the automatic transmission selector lever is in the "Park" position. Most of these I have encountered have been on Chrysler products. For column mounted selectors, the fault is in the column and may be beyond what a locksmith may want to tackle in the field.

For console mounted selectors, the fault is associated with the interlock cable that runs from the lock to the transmission selector. First verify that the selector is in the park position and that the key will turn the lock easily. Then, remove the lower shroud. Because the key is stuck in the lock, you will probably have to remove the key ring and all associated knickknacks from the key.

If the shroud won't slip over the key, carefully cut the bow off the key. After the shroud is removed, disconnect the interlock cable. Many slip into the back of the lock and a retaining lever needs to be depressed first. Some are held in place by security pin Torx screws (the kind with the post in the center). Now, you should be able to remove the key by turning it to the lock position.

Operate the selector lever and note the operation of the cable end. It usually allows the cylinder to turn to lock by a notch cut into the cam. Check the spring for smooth operation. You may also want to lubricate the spring and cable.

If this does not solve the problem, the trouble lies at the end in the console. Remove the cover. Some covers are held by clips and some are held by screws. You may also need to remove the handle on the selector lever. It is frequently held in place by a setscrew.

With the parking brake on, move the selector lever back and forth and note the operation of the cable on that end. You will probably see that the spring does not pull the cable back to the park position when the lever is put into park. Check for a

## A Few Words From Jake...

I hate to sound like a nag, but... I'm still getting a lot of tips from locksmiths where they forget to put in their physical address, or their last name, and in some cases, both. When that happens, we have no idea who should get credit for the tip, and if there is no address we can't send out a Technitip prize. So if you are using snail mail, FedEx, e-mail or sending me a tip by Pony Express; please, let me have your name and physical address. I need a little help here.

There are two things that make this column as successful as it is. One, of course, is the locksmiths that take the time to sit down and put an idea that has saved them time or made them money, on paper and send it in to me. Without that constant stream of tips, I couldn't continually put out this column every month, year-after-year. So, I want to thank each one of you that has sent me a tip.

The second thing that makes this column 'click' is the manufacturers and suppliers that so generously contribute thousands of dollars worth of books, tools, key machines, key blanks, locks, electronics and automotive products. Year-after-year, these contributors provide me with the prizes that we give away each month and at the end of the year. I can't thank them enough for their generosity and support. Many of them have been contributing to this column for years.

To each of them I want to say thanks. From me, from The National Locksmith and on behalf of each tipster who has ever had a tip published and received a prize package for that tip.

So, like the old radio preacher used to say: "Keep them cards and letters comin' folks!"

See y'all next month!



*by Jake  
Jakubowski*

broken spring. If it is ok, you will need to clean the debris and spilled liquid (Pepsi, Coke, etc.) from the lever, spring, and cable and lubricate it. This will usually solve the problem.

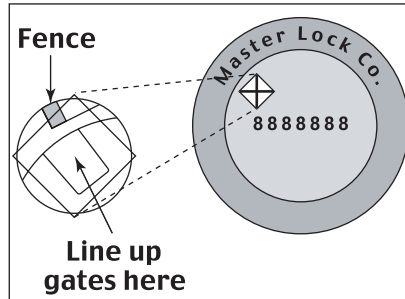
*Raiford Ball  
Tennessee*



*WEDGEKO KEY  
EXTRACTOR WINNER:  
Master Combination  
Opening Tip*

Here is a tip on opening a master combination lock (the flimsy kind that are used on bicycles and school lockers, using only a #2 Phillips screwdriver and a hammer. On the backside of the lock, place the tip of the screwdriver just above the first digit of the serial number as shown in illustration A.

The lock body has a circular window directly behind this point that will allow you to see the gates and the fence. Strike the screwdriver with the hammer just hard enough to punch a square hole in the thin plate on the back of the lock. Looking through the hole, you will see the edge of the wheel pack and a lever arm; the fence is towards the



### Illustration A

end of the lever arm at about the 11 o'clock position.

Spin the dial clockwise twice and then line up the first gate, which is on the wheel closest to the back of the lock. Turn the dial counter-clockwise until the second wheel begins to turn and then line up the second gate. Turn the dial clockwise to line up the third gate. When you pull on the shackle the fence drops into the gates.

I used a rusty #2 Phillips screwdriver that I planned to throw away, but after the above procedure there was no visible damage to the screwdriver.

*Ralph J. Ball  
Tennessee*



**STRATTEC WINNER:  
Coin Op Lock  
Assembly Tip**

I had to drill the four bolts on a coin operated laundry machine recently. After I got it open it came apart easily, but the re-assembly seemed to be a real pain until I came up with this idea.

I used a piece of wood 1-1/2" thick and 6" square (I could have glued two one inch boards together) to make a re-assembly jig to help me get everything lined up and in place. In the center I cut a 2-1/2" hole.

I placed the four bolts into the nose guard of the lock and then laid the partial assembly into the hole that I had cut in my jig. Next, I put the small spacer on the guard over the bolts and then the next plate and second thicker spacer.

Next, I attached the lockable portion \* (it comes in two pieces) and finally, the last plate. I then attached the coin box and started the nuts on the bolts. When I encountered a problem getting the nuts started, I put another spacer between the box and the lock, which lowers the bolts and allows me to start the nuts easier. Once the nuts are started, I remove that spacer.

*Pat McConnell  
E-mail*



**HPC WINNER:  
Jiffy Jack/Air  
Wedge Guide Tip**

Here's a tip for you "non-traditional" (me included) locksmiths who occasionally open vehicles with a Jiffy Jack or similar system.

Ever try to get a stiff strip saver or air wedge past the rubber molding of a door, only to have it snag up or dead end? Here's what you do. Before you throw away your next 2-liter bottle of your favorite soda pop, cut a 1 to 1-1/4" wide strip from the top of the bottle down to include the curved, tapered portion at the bottom.

The bottom inch or two has a natural curved effect molded in. Insert that strips curved portion into the door first. The curved section "feels" it way around the molding to the inside of the vehicle.

With the strip now in place, a strip tool or air wedge can follow that natural curve and slip in easily. One 2-liter bottle will provide five such strips.

*Mike Strohbusch  
New York*



**SARGENT &  
GREENLEAF  
WINNER:  
Soda Straw Shim  
Holder**

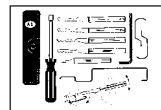
I've often had problems tying to shim pick a cylinder when I was cold, tired, or my hands would remind me how old they are!

Seems I would "flex" the shim and put a permanent crease or bend in it and then it wouldn't work well, if at all.

I solved this problem by cutting a half-inch piece off of a 3/8" soda straw and slipping the cut piece of straw up and over the shim. The

piece of straw gives the shim just enough rigidity to keep it from flexing or bending and still leaves it pliable enough to pick the cylinder.

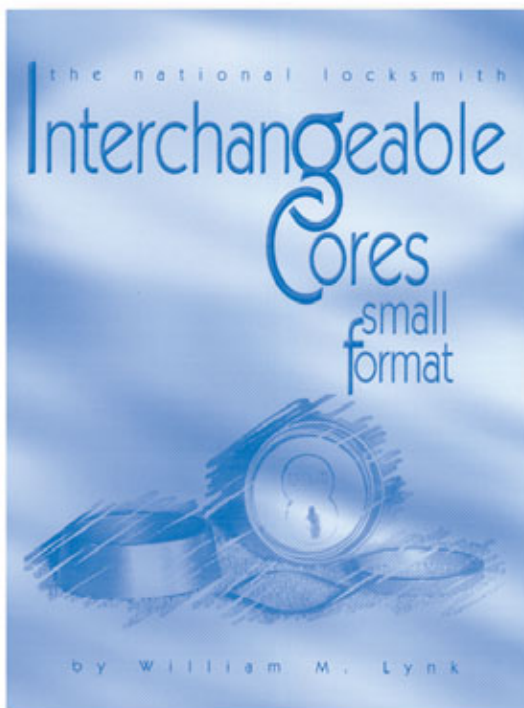
*Chuck Wells  
Indiana*



**A-1 SECURITY  
PRODUCTS  
WINNER:  
Desk Lock Tip**

I have two desk locks with 5" locking bars that are no longer available from my suppliers. I needed keys for the locks and tried locating a code without success and my impressing skills leave a little to be desired (it takes me too long).

## IC Cores: Small Format



Everything you ever need to know about  
how to sell, service, install and  
troubleshoot interchangeable cores!

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#ICSF - 1



I decided to remove the swaged back from the locks, depress the retainer and remove the plug and visually decode it.

On the back of the lock you will find four staked posts. I gently filed them to a flat surface and then very gently lifted on the edges with a small flat screwdriver and pried the plate off.

Here's the crux of the tip:

Before replacing the plate, use a drill to countersink the four holes. When you put the plate in position for re-staking, there is enough of the post rising above the countersink to swage into the countersink. It makes for a very good, tight fit.

James Bradshaw  
Canada

Editor's Note: I, like you, have removed the covers as you outlined, however, it is really easier to sight read the wafers. Bob Sieveking has a great book outlining that procedure, when there were no codes or I could not impression the lock for whatever reason. However, I never thought about countersinking the existing holes! Good idea if you need to use this procedure.



ILCO KEY BLANKS  
WINNER:  
**Screwdriver Tip**

I don't know whether this has ever been used as a tip, but I

discovered that a Klein offset screwdriver (you can get them in any electrical supply house) are almost as fast as using a power screwdriver for removing and replacing a variety of screws.

I bought a couple of Phillips and standard slotted sized offsets and find them a valuable addition to my toolbox.

Glenn Starling  
Florida



KEEDEKX WINNER:  
**Mail Box Entry Tip**

A tenant of an apartment lost the mailbox key and I was tasked to make a new one. For some reason, the lock did not want to pick. I found a tenant with the adjacent mailbox and had them open their box for me.

From that opening, I was able to use a mirror, flashlight, screwdriver, and a couple of bends of the arm to access the clip on the stuck lock. With the lock clip off, it was just a little work to get the door open, read the code and make a new key. If you can read the code without opening the door, it saves a lot of time, but this one was hard to read.

Jim Pakkala  
Michigan



TECH TRAIN  
TRAINING VIDEO  
WINNER:  
**Scotch Brite  
Catchall**

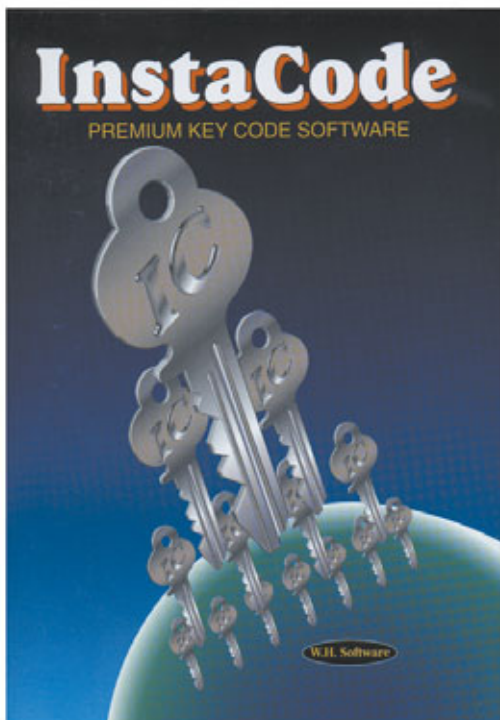
I wonder how many have this problem? Small parts springing away or rolling from the work area?

This only seems to happen when the client is in the shop waiting for his ten-minute rekey, repair or whatever. Or, you're in your van and a spring goes zinging off into hyperspace never to be seen again-or at least, not until after a lengthy search. I have wasted much valuable time looking for escaped parts that seem to flee the work area as soon as your attention is occupied by remedying the problem.

I have found that changing from a hard surface work area to one covered with Scotch Brite will keep everything exactly where you put it or where it falls or springs. With the Scotch Brite pad (used as pot scrubbers, etc.) there is no rebound or skips to parts unknown and the ten minute job actually takes only ten minutes.

Larry Taylor  
Canada

## InstaCode

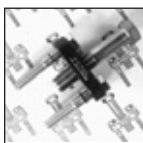


The latest release of InstaCode, includes over 5000 code series covering general/utility, padlock, vehicle and motorcycles.

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#IC - 2003



**SIEVEKING  
PRODUCTS GM E-Z  
WHEEL PULLER  
WINNER:  
Transponder Trade  
Tip**

I was out the other night making a key to a Ford, which required an H72 transponder key blank. After making the mechanical key I went to duplicate it to an H72 and miss cut the key. That's when I discovered that was the last H72 on my van.

It was late and I did not want to go back to the shop. I was thinking about how to solve the problem when I realized that the H74 and H72 are the same; except the transponder in the head of the blank.

I took the key heads apart and attached the transponder to the H74. I code cut the key this time and it worked great.

*Michael Coulter  
North Carolina*



**MAJOR  
MANUFACTURING  
PRODUCTS  
WINNER:**

#### **Keedex Spin Out Tip**

I won a Spin Out for a tip I submitted and find it an exceptionally valuable tool. Here are a couple of "tips" relating to using the Spin Out.

The Spin Out comes with a piece of self-sticking magnetic rubber tape on the back of the upright portion of the fixture to hold spare bits. Although I am sure that this is sufficient for bench use, the strip does not have enough "grip" to keep the bits in place when bouncing around in the truck or tool kit.

I placed a 1" button magnet (bought at a hobby shop) directly in front of the upright. Laying the spare bits side-by-side on top of this magnet, with the "heels" of the bits against the "back" of the upright, allows more holding power to keep the bits where you want them.

I also place a second magnet in proximity to the first to hold the screws that I take out of the mortise cylinders. And, whenever I need some extra torque for those hard to remove screws in face plates and such, I find the oversized grip on the Spin Out gives me the "oomph" I need to get the job done.

*Ralph Iden  
Michigan*



**SLIDELOCK'S "Z" TOOL  
OPENING SET WINNER:  
Master Padlock  
Opening**

When trying to decode a four-wheel Master combination padlock that wants to be difficult, I have found that the pin that is located just above and slightly to the right of the "R" in the Master logo on the front of the lock is "blind".

I can flip the lock over and carefully drill a 3/16" hole just above the "in-line" position with the pin and hit the back of the pin. Then I drive

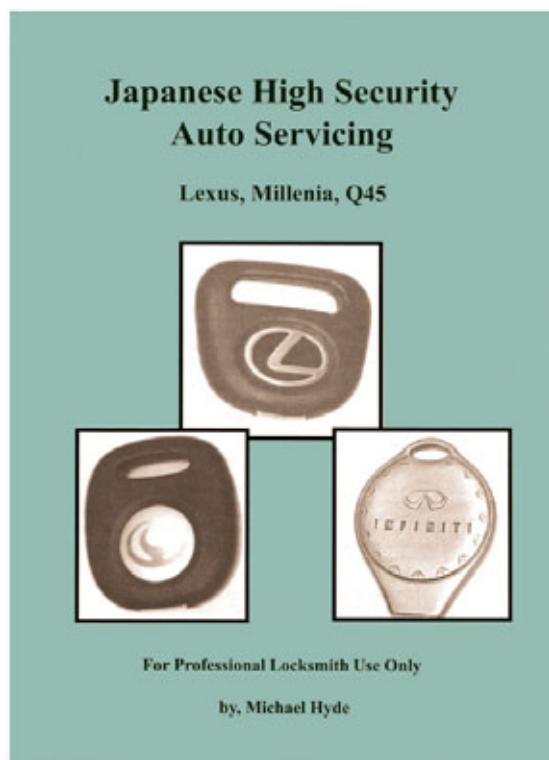
the pin out of the lock with a small punch, which allows the combination mechanism to come out the bottom of the lock case.

Then, it's simply a matter of decoding the combo and reinstalling the mechanism. I use the same pin and plug the drilled hole with a piece of lead shot. After trimming it off smooth, I can put the lock back in service.

*Paul McFadden  
Texas*

**TNL**

## Japanese High Security



Some of the most profitable cars are  
also the trickiest to work on.

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#JAP - 1



# 1999 Honda Shadow



*ACE  
Deluxe*

1. This Honda 750cc V-twin ACE (American Classic Edition) is a very popular cruiser and there are a lot of them on the roads. Originating a key to this motorcycle is not difficult.

## GAS CAP LOCK



2. The gas cap is located on top of the gas tank and is probably the best source to obtain the code.



3. Pick the gas cap lock 90 degrees clockwise to remove it. It usually picks easy with a rake and lubing will help. Have a small screwdriver ready to finish turning it because you are picking against spring pressure.



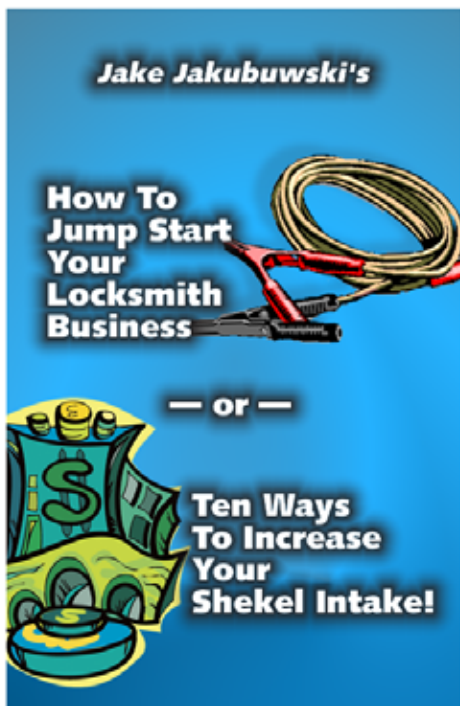
4. The code is stamped on the bottom of the gas cap in very small characters. The last three characters are the code so in this case the code is A08.



6. The chrome gas cap cover is crimped all the way around and would be difficult to remove to disassemble the lock. It would also be difficult to accomplish the job without cosmetic damage. Other style Honda gas caps have a ring under the gasket that you can remove to gain access to three screws, but the photo shows that this style cap cannot be disassembled that way. It would probably be best to replace this cap rather than rekey it.



5. The original key is on the left with the code stamped on it. On the right is a code cut X84 with cuts of 32211. It works all three locks on the motorcycle.



## How To Jumpstart Your Business

Anyone who's ever read anything that Jake Jakubowski has written is familiar with his style.

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#JUMPSTART



## IGNITION LOCK



**7. The ignition lock is located on the left side of the motorcycle behind the engine. The black plastic panel to the right of the ignition lock is the toolbox cover.**



**8. A close-up of the ignition lock shows that it only has positions for OFF & ON.**

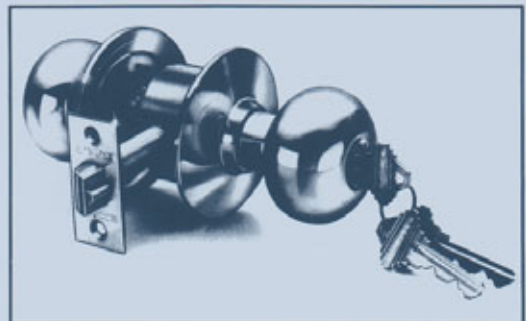


**9. The toolbox cover is shown partway removed. It is held on by three tabs that pop right out when you pull on it.**

# Lock Repair Manual

## Lock Repair Manual

*This handy reference book features information on repair and installation of various makes and styles of locks.*



Published by:

**The  
National  
Locksmith**

Here, under one cover you have a tremendous amount of lock servicing information. Next time you run into a problem chances are you'll find the answer in the Lock Repair Manual.

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#LRM - 1





10. A Phillips screw holds the lock cover on and two 10mm bolts secure the lock to the frame.

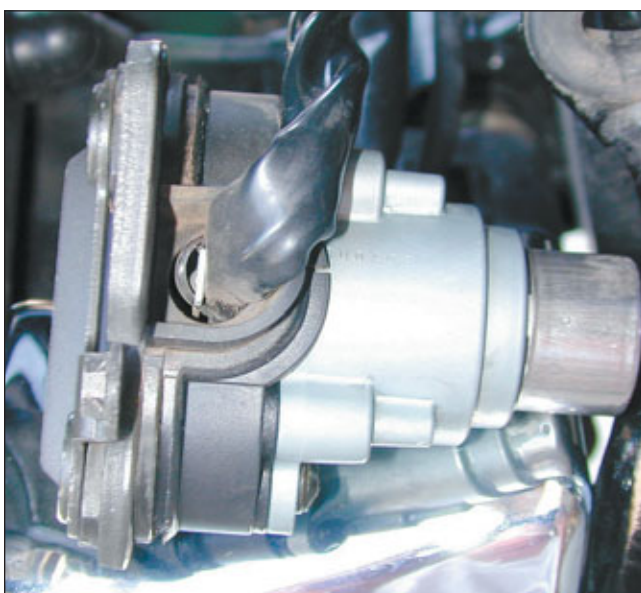


11. Use a large Phillips screwdriver to remove the cover screw and pull the lock cover off the front of the lock.

12. The lock cover and a screw is shown removed from the ignition lock.



13. Remove the two 10mm bolts and pull the lock out. It is still connected to the motorcycle by the electrical cable.



14. The code is stamped on the lock housing next to where the electrical cable is attached.

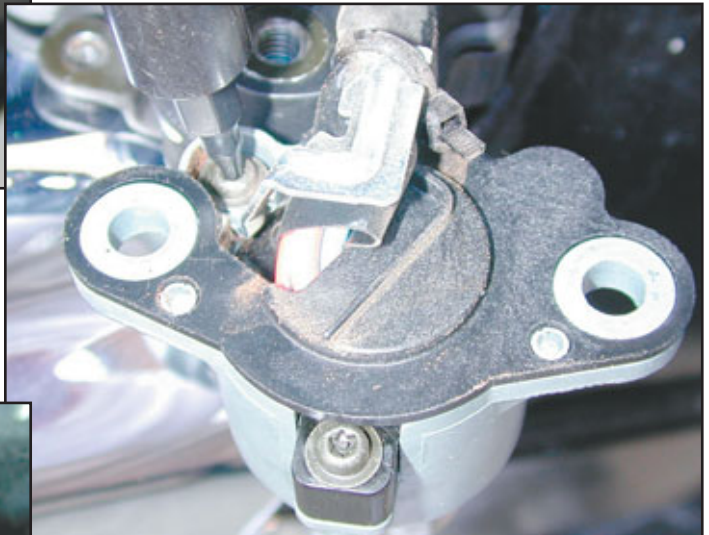


15. The code is stamped in very small characters. The last three characters are the code so in this case the code is A08.

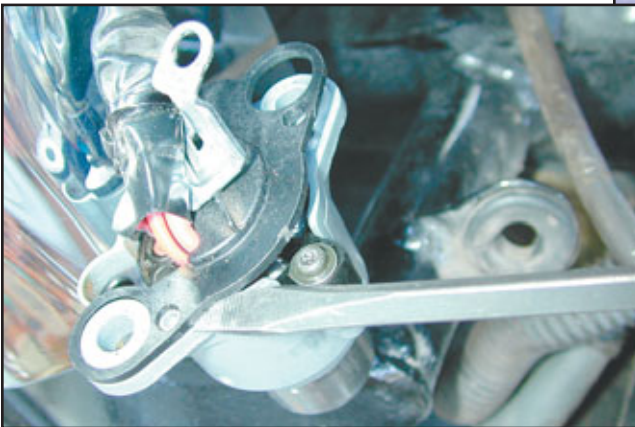




**16. To disassemble the lock, use a Dremel to cut screwdriver slots in the two shearhead bolts. Then use a screwdriver to remove them so you can pull the lock out of it's mounting housing.**

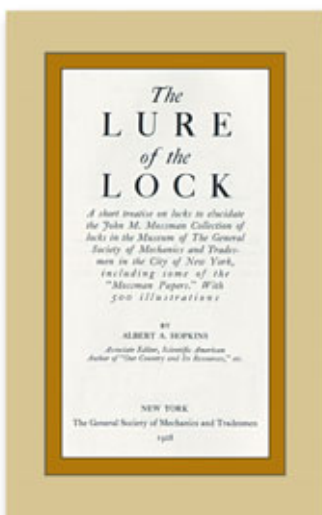


**17. A T10 security Torx driver is shown removing the screw that holds the cable support bracket on.**



**18. Use a screwdriver to pry off the backing plate that is secured by two flared posts. You can use pliers to squeeze it back on when reassembling.**

## The Lure of the Lock

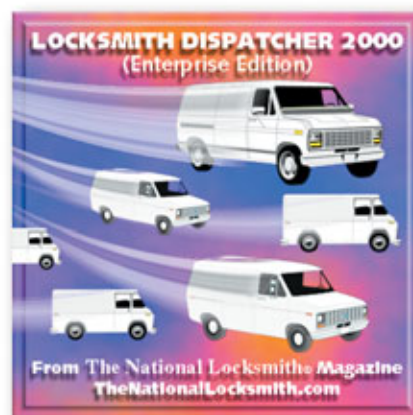


This hardcover book, compiled in 1928, features dozens and dozens of beautiful photographs on ancient through modern locks.

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#LURE

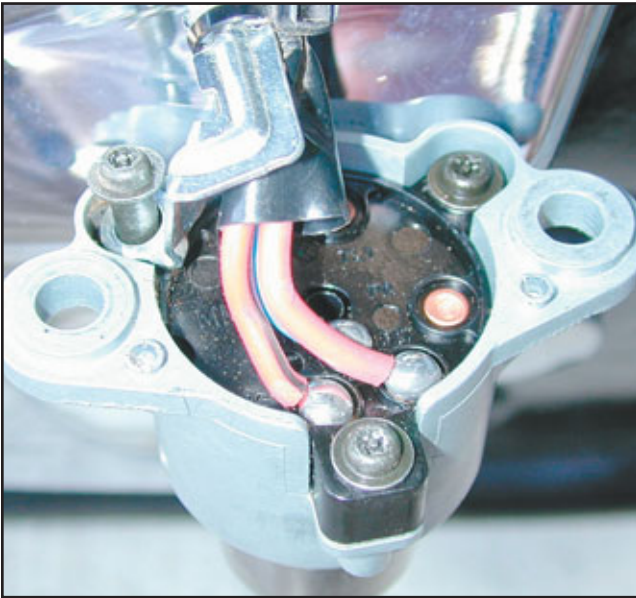
## Locksmith Dispatcher 2000



Controlled Service dispatching software specifically for the locksmith!

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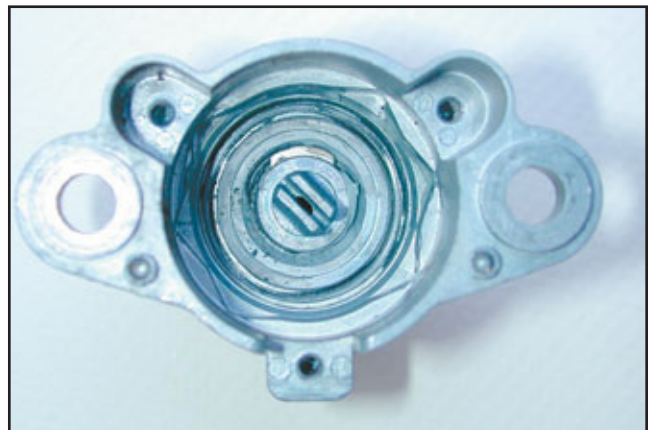
**19.** Now you can remove the other two T10 security Torx screws that secure the switch to the lock housing.



**20.** The switch pulls out as a unit. Now you can take the lock to a bench.



**21.** Use a screwdriver to pry the facecap off. Work it off evenly by prying all around it.



**22.** The retainer is visible on the rear of the plug. Depress it and push the plug out the front of the cylinder. Be careful and don't allow any wafers to fall out.



**23.** An X84 blank inserted into the plug shows the cuts to be 32211, which is code A08.



**24.** The wafers from left to right are tumblers with depths of 32211 and the retainer. Notice that the #2 wafers are silver in color while the #1 & #3 wafers are bronze in color. Knowing this can help you read the wafers by looking into the keyway. Also notice that the retaining wafer is not open on one end. This means that a pick can be used in the keyway to depress it and pull the plug out. The locks on this motorcycle use the ASP A-19-101 keying kit, which is also used on Honda automobile door and trunk locks throughout the 80's.

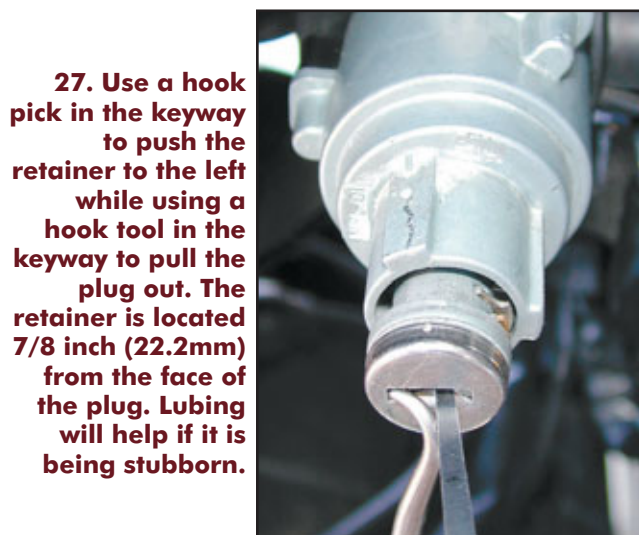


## ALTERNATIVE PLUG REMOVAL

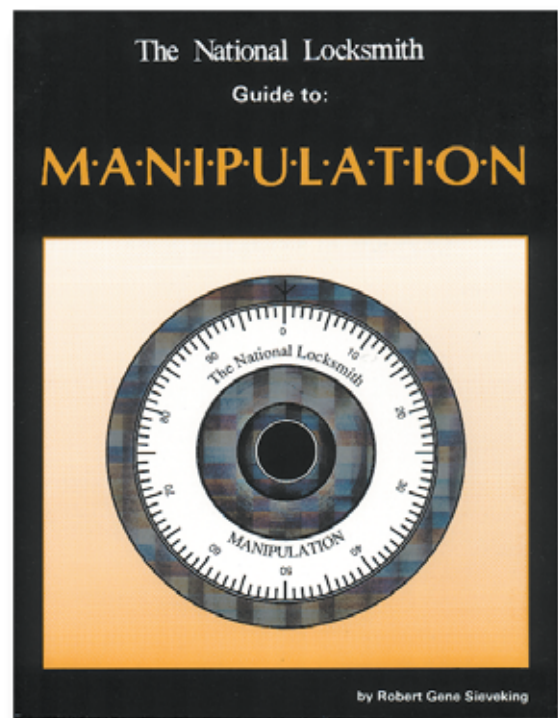
25. A shortcut way to remove the plug while it is still mounted on the motorcycle is to use a large Phillips screwdriver to remove the cover screw and pull off the lock cover.



26. Use a screwdriver to pry off the facecap by prying evenly all around it.



# Manipulation Home Study Course



Our home study course guides you on step-by-step process, teaching you everything there is to know about manipulation.

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#MAN - 1



**28. The steering lock is attached to the rear of the fork assembly on the right side of the motorcycle.**



**29. Turn the plug 180 degrees clockwise to lock the steering while the forks are turned all the way to the left or right. The top of the steering lock is attached to its mounting bracket by two large Phillips screws. To remove the screws that secure the lock, it is necessary to place the motorcycle on a jack and disassemble the fork assembly.**

**Codes:**

A00-A99 & B00-B99 use Ilco: X84 (HD74); Curtis: HD74; Silca: HON39; Jet: HD74NP

**Codes:**

C00-C99 & D00-D99 use Ilco: X138 (HD75); Curtis: HD75; Silca: HON31; Jet: HD75NP

**Spacing:** 1=.098, 2=.197, 3=.295, 4=.394, 5=.492

**Depths:** 1=.276, 2=.244, 3=.213

**HPC Card Number:** CMC37

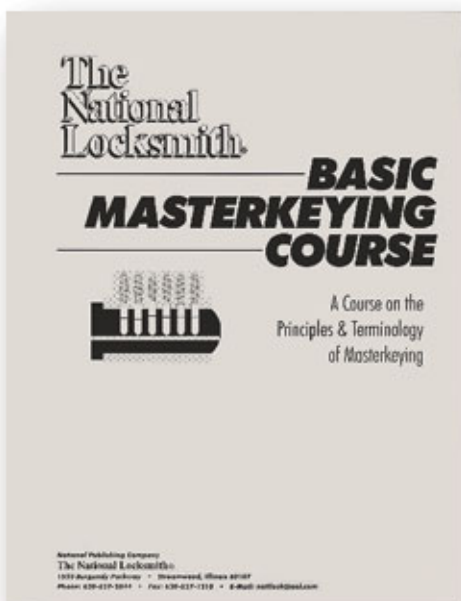
**ITL Number:** 214

**Curtis:** HD-4 cam & HD-8A carriage

**Tumbler Locations:**

	1	2	3	4	5
<b>Ignition Lock:</b>	x	x	x	x	x
<b>Gas Cap Lock:</b>	x	x	x	x	x
<b>Steering Lock:</b>	x	x	x	x	x

**ITL**



# Basic Masterkeying Course

13 Lesson  
450 page course

The Basic Masterkeying course is designed for the locksmith who wishes to become proficient in Basic Masterkeying.

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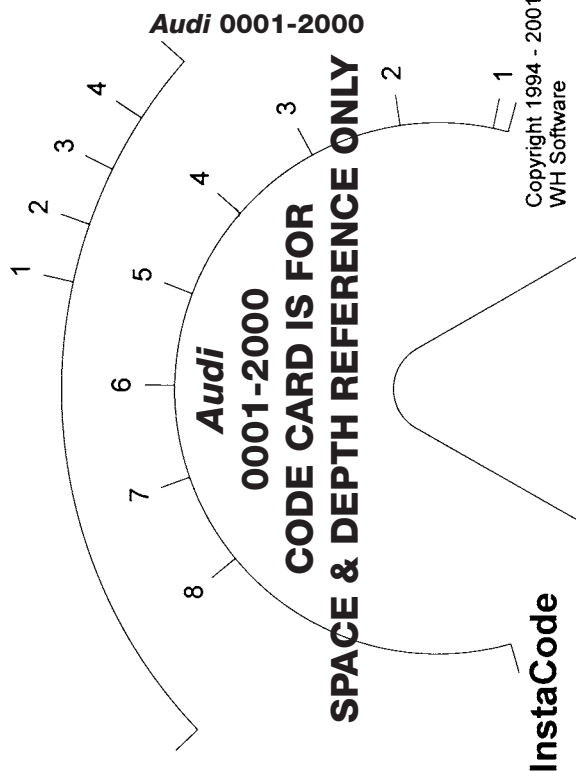
#MK - 1



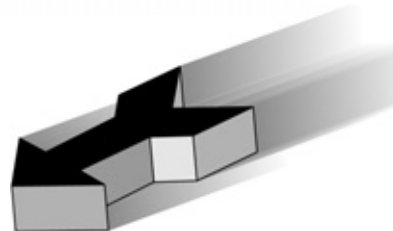
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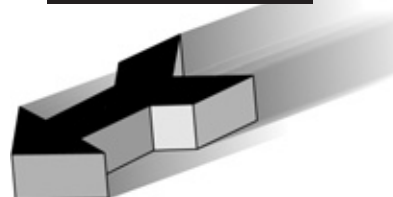


# BONUS

## Code Card

For the  
1200CMB™

# Flip 'em over for Silca, Curtis, Framon, A-1 and TL specs



# Code Card

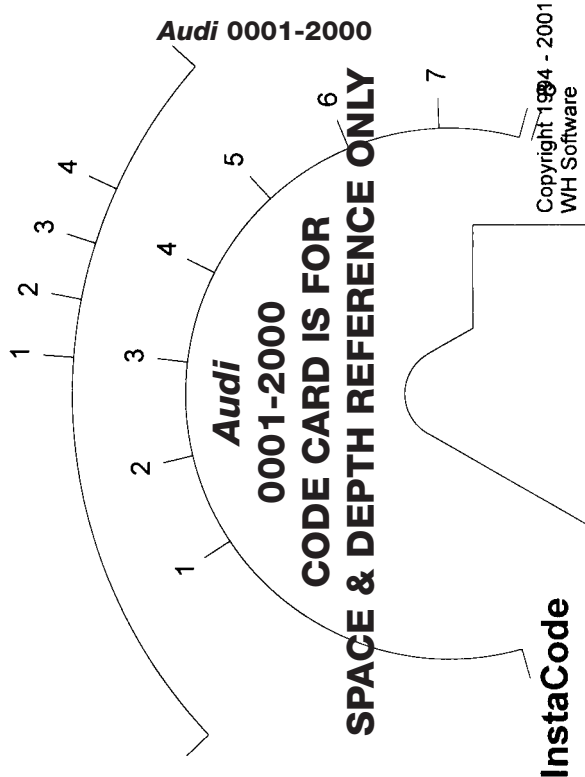
For the  
1200PCH™

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INSTA-CODE 2002™ from  
The National Locksmith

January 2002 • 115

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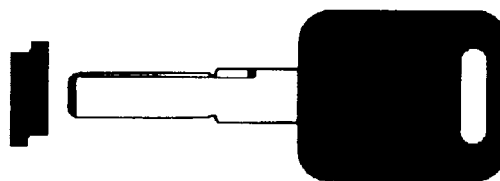
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# KEY CODES

## Audi 0001-2000



Manufacturer: Audi  
Code Series: 0001 - 2000  
Key Blanks:  
Boerkey: 17090T19  
Curtis: TKB-AD66  
Errebi: T02HF55PA  
Ilco: HU66T5  
JMA: TP01HUHAA  
Orion: T19HF66B  
RR: XPHF222AX  
Silca: HU66BT1  
Number of Cuts: 8  
M.A.C.S.: 2  
Key Gauged:  
Center of First Cut: .118  
Cut to Cut Spacings: .118  
Cut Depth Increments: .024

Notes: This is a laser cut wave key  
that requires the correct machine  
to cut.  
Spacings:  
1 - .118  
2 - .236  
3 - .354  
4 - .472  
5 - .591  
6 - .709  
7 - .827  
8 - .945  
Depths:  
1 = .150  
2 = .126  
3 = .102  
4 = .079

HPC 1200CMB  
Code Card: N/A  
Jaw: N/A  
Cutter: N/A  
Gauge From: N/A  
HPC 1200PCH (Punch):  
PCH Card: N/A  
Punch: N/A  
Jaw: N/A  
Silca UnoCode  
Card Number: N/A  
HPC CodeMax  
DSD #: N/A  
Jaw: N/A  
Cutter: N/A  
Curtis No. 15 Code Cutter:  
Cam-Set: N/A

Carriage: N/A  
Framon #2:  
Cuts Start at: N/A  
Cut to Cut Spacing: N/A  
Block #: N/A  
Depth Increments: N/A  
Cutter: N/A  
Key Clamping Info:  
A-1 Pack-A-Punch  
Quick Change Kit: N/A  
Punch: N/A  
Die: N/A  
ITL 9000 & 950  
Manufacturer ID: N/A  
ECM 200: N/A

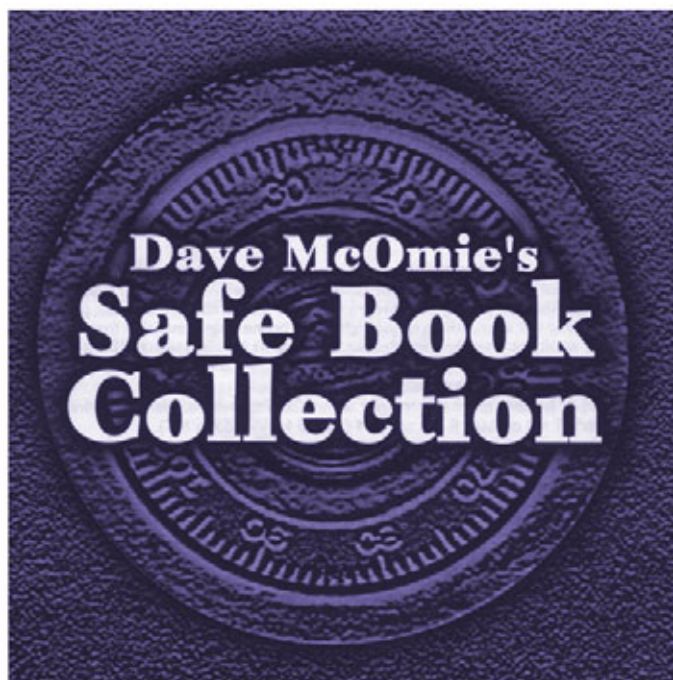
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0002	34432244	0042	32233434	0082	13244323	0122	23113224	0162	21244232	0202	43121342
0003	22121123	0043	24344333	0083	13323444	0123	31311111	0163	34433443	0203	22433334
0004	32312344	0044	23113233	0084	13324322	0124	42113234	0164	44243232	0204	43112243
0005	43344312	0045	43232433	0085	12211243	0125	42133212	0165	13123334	0205	23122121
0006	23332124	0046	13344443	0086	44243243	0126	42133322	0166	23134221	0206	31334431
0007	43243231	0047	31211222	0087	24431134	0127	33234443	0167	23233111	0207	34332221
0008	23322442	0048	11124243	0088	42223333	0128	31334444	0168	23233223	0208	44324324
0009	43324424	0049	24433442	0089	12334223	0129	12223424	0169	21323313	0209	44344313
0010	12312421	0050	11113324	0090	32244421	0130	23313224	0170	13132231	0210	44421124
0011	22122311	0051	31123334	0091	12233223	0131	34212211	0171	33312312	0211	43124334
0012	31211244	0052	33424332	0092	32242111	0132	13313322	0172	44433433	0212	34342132
0013	31231112	0053	43233234	0093	12321342	0133	33332112	0173	22224433	0213	21333444
0014	31231222	0054	12334322	0094	22124432	0134	13331243	0174	42213321	0214	32232312
0015	23343111	0055	12424313	0095	24431334	0135	33432434	0175	21344211	0215	43322424
0016	22124443	0056	12424432	0096	34212244	0136	43242342	0176	42134321	0216	23311224
0017	42323422	0057	11134242	0097	34231234	0137	12224421	0177	22132431	0217	43222113
0018	12443211	0058	43242432	0098	34231344	0138	22231132	0178	24433224	0218	23234433
0019	24244231	0059	23423244	0099	32322112	0139	22313122	0179	33321211	0219	43244243
0020	44213123	0060	34311222	0100	24433233	0140	22313313	0180	43323111	0220	12232334
0021	23433113	0061	11332433	0101	11222442	0141	13422121	0181	43343311	0221	21334344
0022	43443211	0062	31242244	0102	22334224	0142	12232433	0182	43343443	0222	31123311
0023	24223342	0063	11232131	0103	33122311	0143	32342121	0183	42231121	0223	31134231
0024	32442223	0064	31232331	0104	12434233	0144	43432433	0184	33324344	0224	31134334
0025	42324421	0065	11321134	0105	32422324	0145	21213322	0185	13432232	0225	23321311
0026	11333124	0066	21123131	0106	12432112	0146	34243112	0186	31223443	0226	21343223
0027	12113224	0067	23423444	0107	32443332	0147	13443111	0187	42423122	0227	42242433
0028	12113323	0068	33122342	0108	42332233	0148	34233122	0188	22331344	0228	12422443
0029	44223122	0069	33212434	0109	11223313	0149	21124424	0189	42311342	0229	24213343
0030	42332244	0070	33213213	0110	21213344	0150	23432213	0190	22322111	0230	43423321
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0034	24334231	0074	21322312	0114	11231222	0154	43111224	0194	24213442	0234	32421312
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0249	22431132	0320	21123313
0250	32123313	0321	21211331
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0252	32212244	0323	12424331
0253	24324223	0324	11134222
0254	22433134	0325	31242442
0255	43212112	0326	42443124
0256	13322342	0327	13223221
0257	31122133	0328	33132244
0258	44432111	0329	12444324
0259	24421122	0330	33123123
0260	44422211	0331	13134422
0261	24442213	0332	22433411
0262	33324324	0333	31243243
0263	43212343	0334	34432422
0264	12312443	0335	42112332
0265	12333123	0336	42112442
0266	12333312	0337	33213123
0267	44443212	0338	31311234
0268	43221224	0339	12132434
0269	23332223	0340	23224423
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0271	11312213	0342	13313421
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0273	11134332	0344	13311124
0274	31211343	0345	33342131
0275	11233213	0346	43221231
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0277	23333222	0348	22131221
0278	32442311	0349	22223113
0279	33121321	0350	22223434
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0297	24334321	0368	24234342
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0300	32224324	0371	34312342
0301	12211342	0372	21221134
0302	32213322	0373	34421211
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0307	34211243	0378	23133231
0308	34211342	0379	21243132
0309	32233344	0380	12443433
0310	24344313	0381	33224422
0311	11124344	0382	44343123

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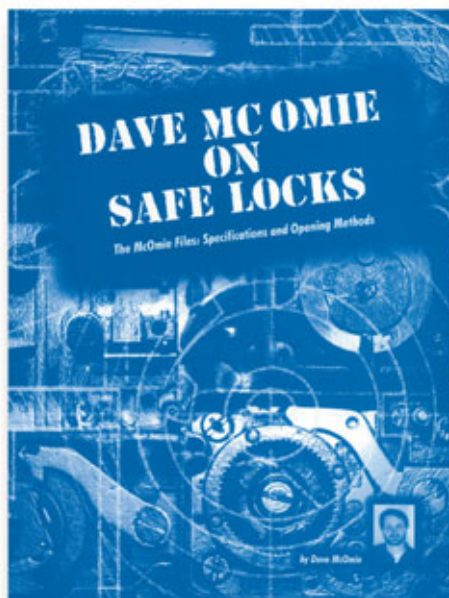
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0823	13243111	0894	12123122								
0824	23322424	0895	12212233								
0825	23343124	0896	12212433								
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0874	23423334	0945	32131134								
0875	43324231	0946	12213423								
0876	23421121	0947	32223312								
0877	43422342	0948	42113434								
0878	12334423	0949	44323123								
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## Dave McOmie on Safe Locks



Almost 300 pages of information, photographs and illustrations give you every scrap of information about a huge variety of safe locks.

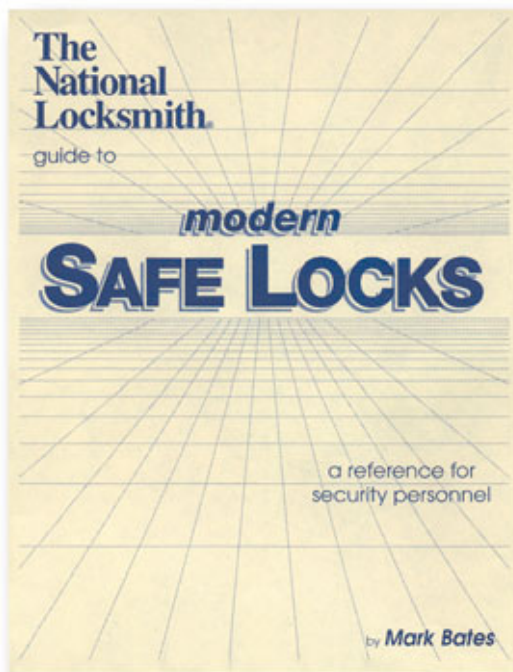
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1006	22323424	1020	43113213	1034	23243334	1048	43422131	1062	24312134	1133	12432321
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1016	34322431	1030	21332223	1044	42234221	1058	22421311	1072	43134223	1143	11323224

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1201	31342223	1272	24231132	1343	12343313	1357	33131124	1371	13312431	1385	34221334
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1216	22243113	1287	44423333								
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## Modern Safe Opening



This book is a step-by-step How-To course in safe penetration. Opening safes is one of the most profitable aspects of the locksmithing business.

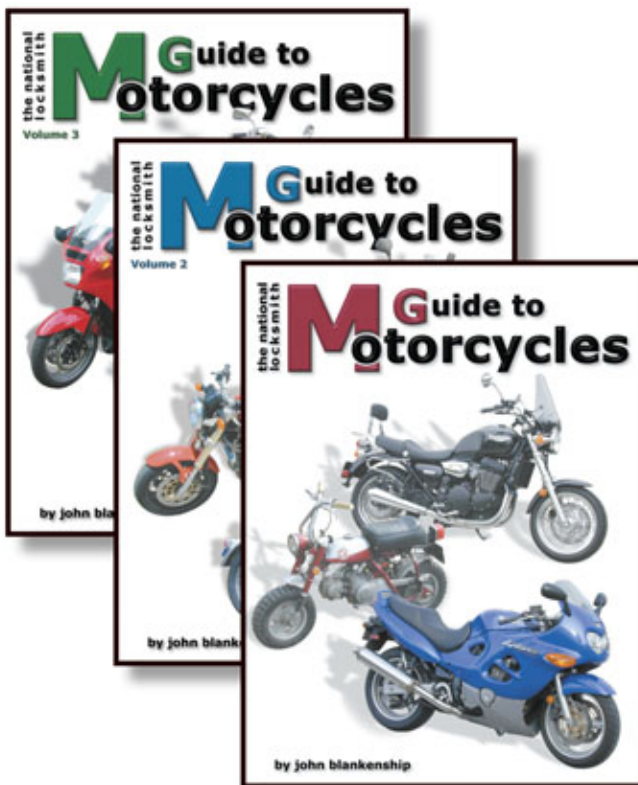
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#MSO - 1

## Audi 0001-2000

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## Guide to Motorcycles Volumes 1, 2, 3



For years locksmiths have begged for a  
comprehensive service manual on  
motorcycles and its finally here!

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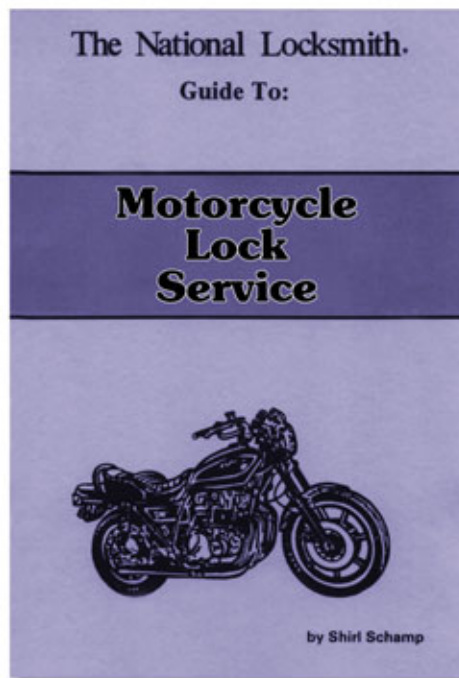




## Audi 0001-2000

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1604	12332133	1675	21343113	1746	12442313	1760	33231242	1774	13344243	1788	34311112
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## Motorcycle Lock Service



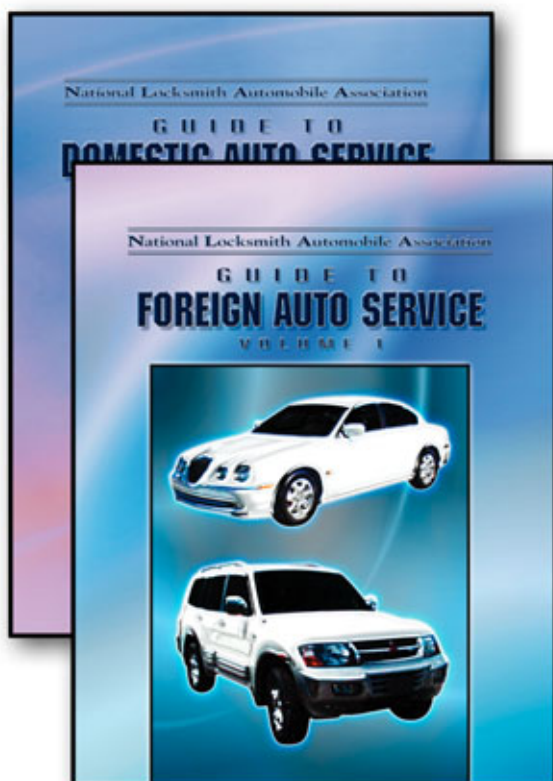
This book contains full details on  
everything the locksmith needs to know  
about motorcycle locks.

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#MLS-1

## NLAA Guide to Domestic Auto Service

## NLAA Guide to Foreign Auto Service



You get car opening, lock removal and service, column service, key and code series information, and many views of the doors, panels and locks.

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## Audi 0001-2000

1791	13221223	1862	42331324	1933	23133244
1792	12321231	1863	34211124	1934	21243211
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## TEST DRIVE!

**D**o you really want a Wedgee? Well, that all depends on what kind of wedgie your talking about. If it's the new High Tech Tools Wedgee" then the answer may be yes.

### PRODUCT:

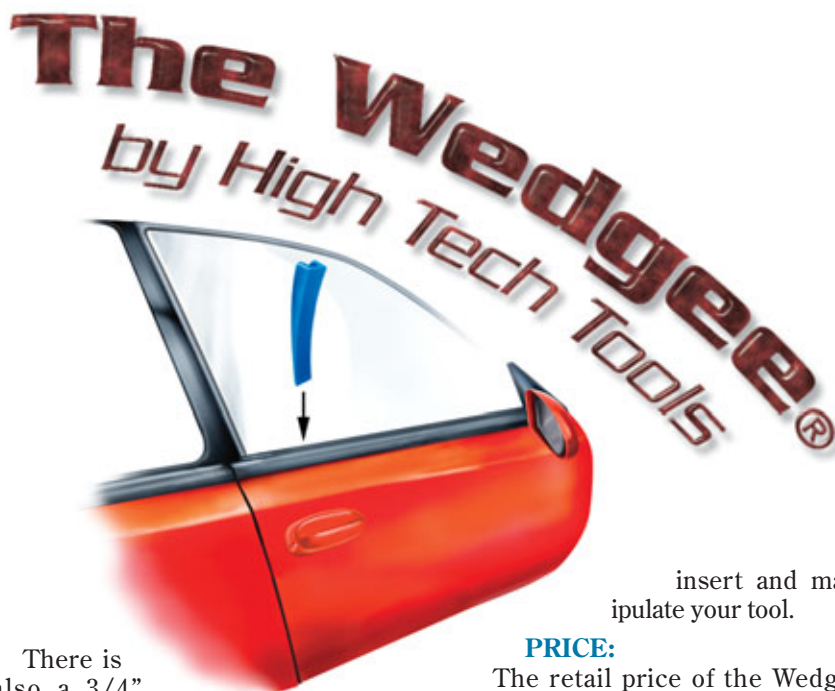
Every once in a while a new product shows up that's a simple, yet effective redesign of something we've all been using all along. The Wedgee is just that. We all use wedges for car openings to create working room between the glass and the weather-stripping. This space created by the wedge allows the insertion of a car opening tool, probe light, and hopefully get a glimpse of the inside of the door.

Over the years there have been a number of innovative wedge designs. There is the standard door stop variety (basically a simple wedge with no frills), made from wood or plastic. There are wedges with grooves so you can insert a probe light, wedges with handles, double wedges and even triple wedges. With all those different wedges already available, (there must be at least ten different varieties), what would make the Wedgee so unique? The Wedgee is just one piece and made of durable plastic. Not much innovation there! What makes the Wedgee so unique is its shape and design. It's so unique in fact that it's actually patented.

### DESIGN:

The Wedgee starts off with a larger than average size, it's almost 9" long. The larger size makes it easy to hold and manipulate. The large size along with bright colors also makes it easy to find at night.

134 • The National Locksmith



insert and manipulate your tool.


### PRICE:

The retail price of the Wedgee is \$10.00.

### CONCLUSION:

Believe it or not my favorite thing about the Wedgee is that it's curved and just right to fit in your back pocket. I have probably lost a couple of dozen wedges of all types through the years by leaving them on the roof of a vehicle or just lying around. The Wedgee goes right in my back pocket and I don't lose it.

Often the everyday tools that we use and are accustomed too we take for granted, seldom giving thought to the possibility that there might be something better. Wedges used for vehicle openings would certainly fall into that category. As long as the product used creates a gap between the window and weather-stripping its done what it was designed to do. Well, there is actually differences between all the available wedges, some offering more benefits than others. The Wedgee is just such a tool.

*For more information on the Wedgee, contact: High Tech Tools, 1400 SW Street, Miami, FL. 33135. Phone: 1-800-323-TECH or 305-649-7014; Web: [www.hightechnetools.com](http://www.hightechnetools.com). Circle 303 on Rapid Reply. *

### IN SUMMARY:

**DESCRIPTION:** The Wedgee is a modern design to the standard wedge.

**PRICE:** \$10.00

**COMMENTS:** What makes the Wedgee unique is its shape and design.

**TEST DRIVE RESULTS:** The difference in size and shape do serve their purpose.